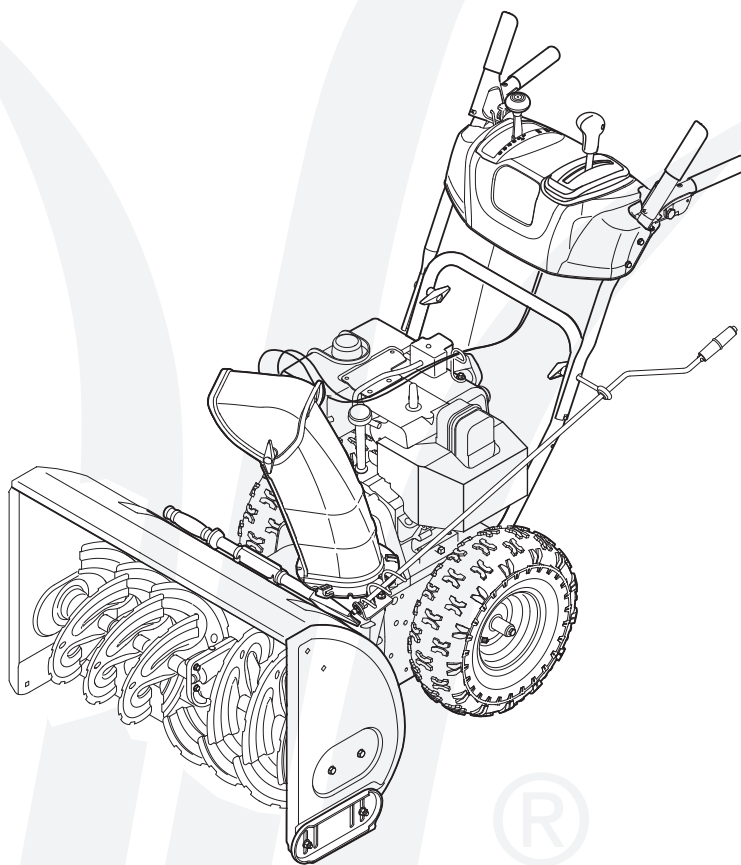


OPERATOR'S MANUAL



Two-Stage Snow Thrower

IMPORTANT:

**READ SAFETY RULES AND INSTRUCTIONS
CAREFULLY BEFORE OPERATING EQUIPMENT.**

This Operator’s Manual is an important part of your new snow thrower. It will help you assemble, prepare and maintain the unit for best performance. Please read and understand what it says.

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Finding and Recording Model Number

BEFORE YOU START ASSEMBLING YOUR NEW EQUIPMENT, please locate the model plate on the equipment and copy the model number and the serial number to the sample model plate provided to the right. You can locate the model plate by standing at the operating position and looking down at the frame.

Model Number Numéro de modèle	Serial Number Numéro de série
XXXXXXXXXX	XXXXXXXXXX
	
MTD PRODUCTS LIMITED KITCHENER, ON N2G 4J1 1-800-668-1238	

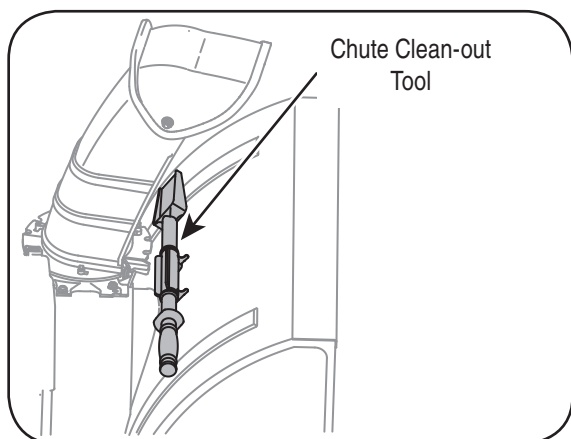
Customer Support

Please do **NOT** return the unit to the retailer from which it was purchased, without first contacting Customer Support.

If you have difficulty assembling this product or have any questions regarding the controls, operation or maintenance of this unit, you can seek help from the experts. Choose from the options below:

- 1. Visit www.mtdcanada.ca for many useful suggestions, click on Customer Support button.
- 2. Call a Customer Support Representative at **1-800-668-1238**.
- 3. The engine manufacturer is responsible for all engine-related issues in terms of performance, power-rating, specifications, warranty, and service. Depending on the engine manufacturer, more information is included in this publication or packed separately with this product.

Please have your unit’s model number and serial number ready when you call. See previous section to locate this information. You will be asked to enter the serial number in order to process your call.



A **chute clean-out tool** is fastened to the top of the auger housing with a mounting clip. The tool is designed to clear a chute assembly of ice and snow.

This item is fastened with a cable tie at the factory. Cut the cable tie before operating the snow thrower.



WARNING: Never use your hands to clear a clogged chute assembly. Shut off engine and remain behind handles until all moving parts have stopped before using the clean-out tool to clear the chute assembly.

1

Safety Labels



WARNING

This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol, **HEED**

ITS WARNING!

Your Responsibility

Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

2

Safe Operation Practices



WARNING

This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol, HEED

ITS WARNING!

Your Responsibility

Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.



WARNING: Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to State of California to cause cancer and birth defects or other reproductive harm.

DANGER: This machine was built to be operated according to the safe operation practices in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

Training

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.
3. Never allow children under 14 years old to operate this machine. Children 14 years old and over should read and understand the instructions and safe operation practices in this manual and on the machine and be trained and supervised by an adult.
4. Never allow adults to operate this machine without proper instruction.
5. Thrown objects can cause serious personal injury. Plan your snow-throwing pattern to avoid discharge of material toward roads, bystanders and the like.
6. Keep bystanders, helpers, pets and children at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
7. Exercise caution to avoid slipping or falling, especially when operating in reverse.

Preparation

1. Thoroughly inspect the area where the equipment is to be used. Remove all doormats, newspapers, sleds, boards, wires and other foreign objects, which could be tripped over or thrown by the auger/impeller.
2. Always wear safety glasses or eye shields during operation and while performing an adjustment or repair to protect your eyes. Thrown objects which ricochet can cause serious injury to the eyes.
3. Do not operate without wearing adequate winter outer garments. Do not wear jewelry, long scarves or other loose clothing, which could become entangled in moving parts. Wear footwear which will improve footing on slippery surfaces.
4. Use a grounded three-wire extension cord and receptacle for all units with electric start engines.
5. Adjust collector housing height to clear gravel or crushed rock surfaces.
6. Disengage all control levers before starting the engine.
7. Never attempt to make any adjustments while engine is running, except where specifically recommended in the operator's manual.
8. Let engine and machine adjust to outdoor temperature before starting to clear snow.

Safe Handling of Gasoline

To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes, which can ignite. Wash your skin and change clothes immediately.

- a. Use only an approved gasoline container.
- b. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- c. Never fuel machine indoors.
- d. Never remove gas cap or add fuel while the engine is hot or running.
- e. Allow engine to cool at least two minutes before refueling.
- f. Never over fill fuel tank. Fill tank to no more than ½ inch below bottom of filler neck to provide space for fuel expansion.
- g. Replace gasoline cap and tighten securely.
- h. If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area. Wait 5 minutes before starting the engine.
- i. Never store the machine or fuel container inside where there is an open flame, spark or pilot light (e.g. furnace, water heater, space heater, clothes dryer etc.).
- j. Allow machine to cool at least 5 minutes before storing.

Operation

1. Do not put hands or feet near rotating parts, in the auger/impeller housing or chute assembly. Contact with the rotating parts can amputate hands and feet.
2. The auger/impeller control lever is a safety device. Never bypass its operation. Doing so makes the machine unsafe and may cause personal injury.
3. The control levers must operate easily in both directions and automatically return to the disengaged position when released.
4. Never operate with a missing or damaged chute assembly. Keep all safety devices in place and working.
5. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
6. Do not operate machine while under the influence of alcohol or drugs.
7. Muffler and engine become hot and can cause a burn. Do not touch.
8. Exercise extreme caution when operating on or crossing gravel surfaces. Stay alert for hidden hazards or traffic.
9. Exercise caution when changing direction and while operating on slopes.
10. Plan your snow-throwing pattern to avoid discharge towards windows, walls, cars etc. Thus, avoiding possible property damage or personal injury caused by a ricochet.
11. Never direct discharge at children, bystanders and pets or allow anyone in front of the machine.
12. Do not overload machine capacity by attempting to clear snow at too fast of a rate.
13. Never operate this machine without good visibility or light. Always be sure of your footing and keep a firm hold on the handles. Walk, never run.
14. Disengage power to the auger/impeller when transporting or not in use.
15. Never operate machine at high transport speeds on slippery surfaces. Look down and behind and use care when backing up.
16. If the machine should start to vibrate abnormally, stop the engine, disconnect the spark plug wire and ground it against the engine. Inspect thoroughly for damage. Repair any damage before starting and operating.
17. Disengage all control levers and stop engine before you leave the operating position (behind the handles). Wait until the auger/impeller comes to a complete stop before unclogging the chute assembly, making any adjustments, or inspections.
18. Never put your hand in the discharge or collector openings. Always use the clean-out tool provided to unclog the discharge opening. Do not unclog chute assembly while engine is running. Shut off engine and remain behind handles until all moving parts have stopped before unclogging.
19. Use only attachments and accessories approved by the manufacturer (e.g. wheel weights, tire chains, cabs etc.).
20. If situations occur which are not covered in this manual, use care and good judgment. Call customer assistance for the name of your nearest servicing dealer.

Maintenance & Storage

1. Never tamper with safety devices. Check their proper operation regularly. Refer to the maintenance and adjustment sections of this manual.
2. Before cleaning, repairing, or inspecting machine disengage all control levers and stop the engine. Wait until the auger/impeller come to a complete stop. Disconnect the spark plug wire and ground against the engine to prevent unintended starting.
3. Check bolts and screws for proper tightness at frequent intervals to keep the machine in safe working condition. Also, visually inspect machine for any damage.
4. Do not change the engine governor setting or over-speed the engine. The governor controls the maximum safe operating speed of the engine.
5. Snow thrower shave plates and skid shoes are subject to wear and damage. For your safety protection, frequently check all components and replace with original equipment manufacturer's (OEM) parts only. "Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!"
6. Check controls periodically to verify they engage and disengage properly and adjust, if necessary. Refer to the adjustment section in this operator's manual for instructions.
7. Maintain or replace safety and instruction labels, as necessary.
8. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.
9. Prior to storing, run machine a few minutes to clear snow from machine and prevent freeze up of auger/impeller.
10. Never store the machine or fuel container inside where there is an open flame, spark or pilot light such as a water heater, furnace, clothes dryer etc.
11. Always refer to the operator's manual for proper instructions on off-season storage.

Do not modify engine

To avoid serious injury or death, do not modify engine in any way. Tampering with the governor setting can lead to a runaway engine and cause it to operate at unsafe speeds. Never tamper with factory setting of engine governor.

Notice regarding Emissions

Engines which are certified to comply with California and federal EPA emission regulations for SORE (Small Off Road Equipment) are certified to operate on regular unleaded gasoline, and may include the following emission control systems: Engine Modification (EM) and Three Way Catalyst (TWC) if so equipped.

Average Useful Life

According to the Consumer Products Safety Commission (CPSC) and the U.S. Environmental Protection Agency (EPA), this product has an *Average Useful Life* of seven (7) years, or 60 hours of operation. At the end of the *Average Useful Life*, buy a new machine or have the machine inspected annually by an authorized service dealer to ensure that all mechanical and safety systems are working properly and not worn excessively. Failure to do so can result in accidents, injuries or death.

2

Safe Operation Practices



WARNING

This symbol points out important safety instructions, which if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol, **HEED IT'S WARNING!**

Your Responsibility

Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

3

Setting Up Your Snow Thrower



NOTE: References to right or left side of the snow thrower are determined from behind the unit in the operating position.

NOTE: This Operator's Manual covers several models, handle panels, lights and chute cranks are some features that may vary by model. Not all features referenced in this manual are applicable to all snow thrower models.

NOTE: Two replacement auger shear pins are included with this manual (or stowed in the plastic handle panel). Refer to Augers in the Maintenance Section for more information regarding shear pin replacement.

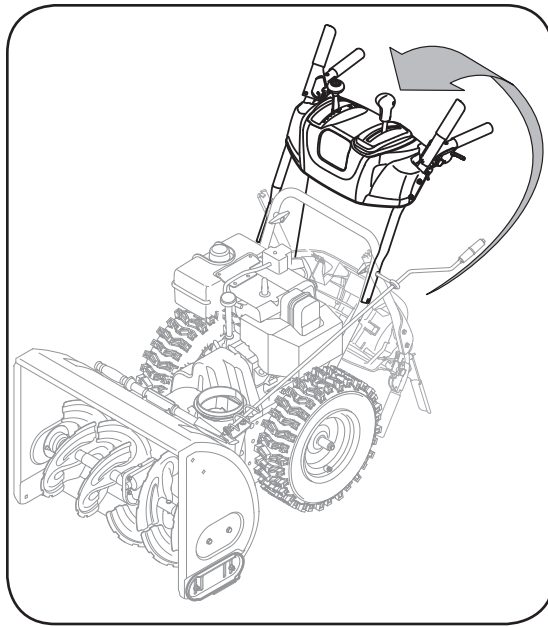


Figure 3-1

1. Observe the lower rear area of the snow thrower to be sure both cables are aligned with roller guides. Pull up and back on the upper handle, align the upper handle with the lower handle. See Figure 3-1.
2. Secure the handle by tightening the plastic wing knob located on both the left and right sides of the handle. Remove and discard any rubber bands, if present. They are for packaging purposes only. See Figure 3-2.
3. Position the chute assembly over the base, seated securely on adapter. See Figure 3-3.
4. Close the flange keepers to secure the chute assembly to the chute base. The flange keepers will click into place when properly secure. See Figure 3-4.

NOTE: If the flange keepers will not easily click into place, use the palm of your hand to apply swift, firm pressure to the back of each.

5. Remove the flat washer and hairpin clip from the end of the chute directional control. See Figure 3-5. Insert the end of the chute directional control into the lower bracket and secure with the flat washer and hairpin clip just removed. If necessary, the lower bracket can be adjusted. Refer to Chute Bracket Adjustment, in the Adjustment Section of this manual.

IMPORTANT: Prior to operating your snow thrower, refer to Auger Control Test on page 11. Read and follow all instructions carefully and perform all adjustments to verify your snow thrower is operating safely and properly.

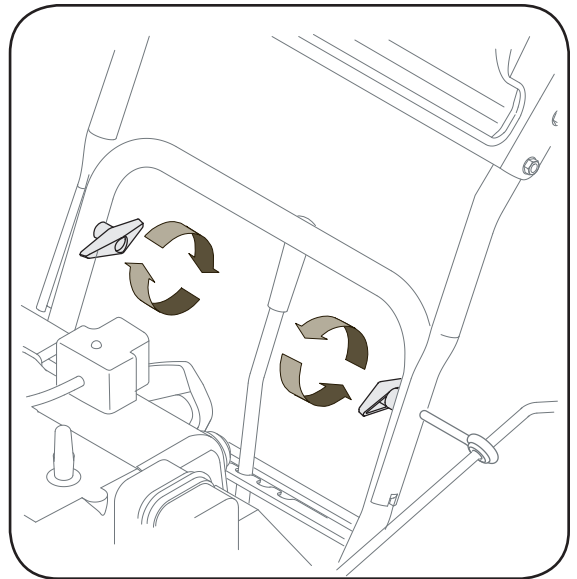


Figure 3-2

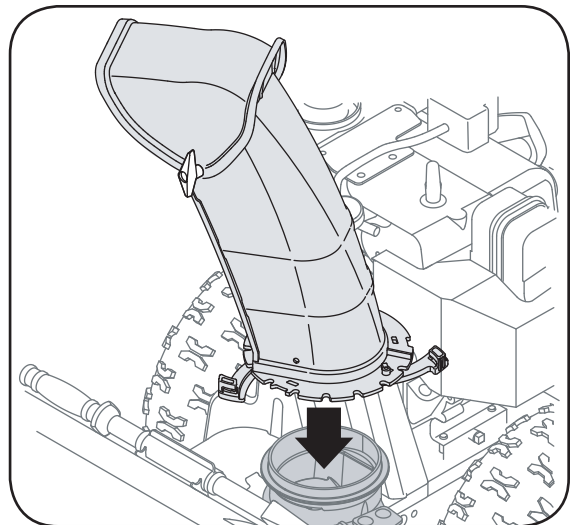


Figure 3-3

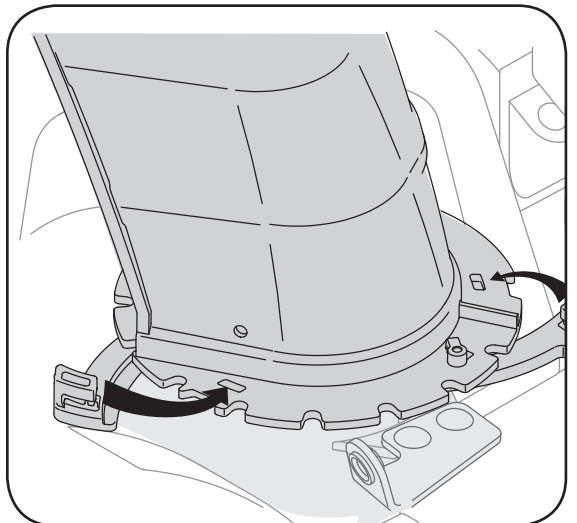


Figure 3-4

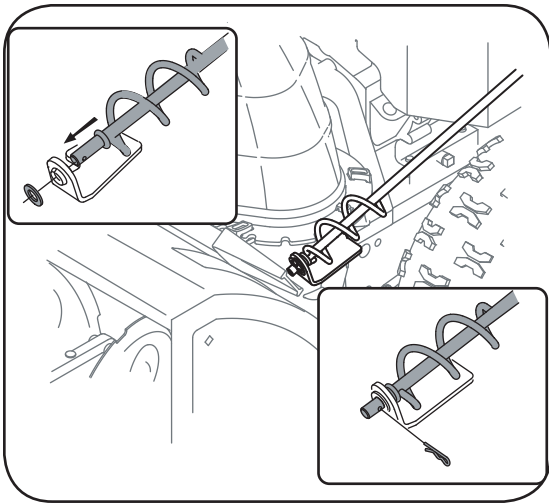


Figure 3-5

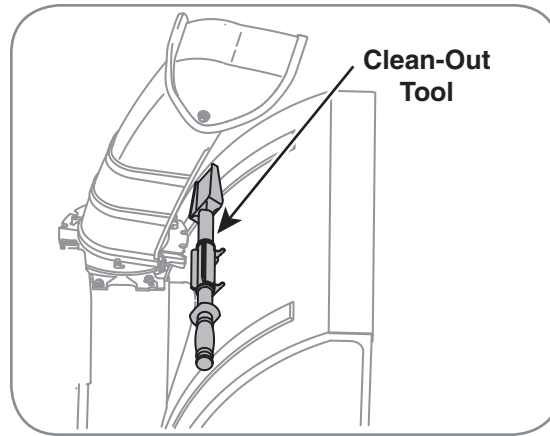


Figure 3-6

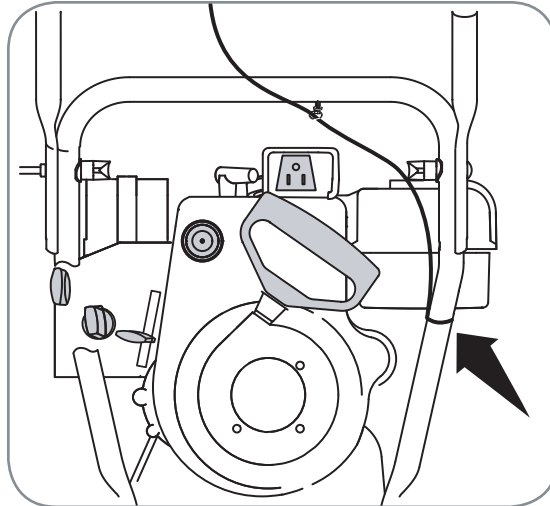


Figure 3-7

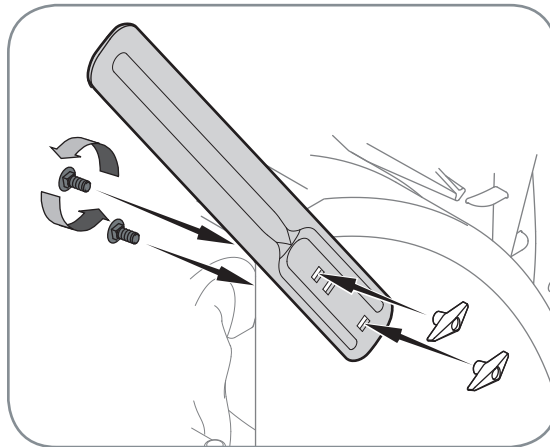


Figure 3-8

Clean-Out Tool



WARNING: Never use your hands to clear a clogged chute assembly. Shut off engine and remain behind handles until all moving parts have stopped before unclogging.

The clean-out tool is mounted to the rear of the auger housing and is designed to clear a clogged chute. Refer to page 9 for instructions on how to properly use it.

NOTE: This item is fastened with a cable tie to the rear of the auger housing at the factory. Cut the cable tie before operating the snow thrower.

Tire Pressure (Pneumatic Tires)

The tires are over-inflated for shipping purposes. Check the tire pressure before operating the snow thrower. Refer to the tire side wall for tire manufacturer's recommended psi and deflate (or inflate) the tires as necessary.

NOTE: If the tire pressure is not equal in both tires, the unit may not travel in a straight path and the shave plate may wear unevenly.

Lamp Wiring Harness (If equipped)

The post on the cable tie attaching the lamp wiring harness to the lower handle should be plugged into the hole in the lower handle. Pull the slack portion of the wiring harness through the cable tie to prevent interference with the recoil starter handle. See Figure 3-7.

Drift Cutters (If Equipped)

Drift cutters should be used when operating the snow thrower in heavy drift conditions.

- On models so equipped, drift cutters and hardware are assembled to the auger housing inverted.
- Remove the carriage bolts and wingnuts securing the drift cutters to the housing.
- Reposition drift cutters so they face forward as shown in Figure 3-8. Secure with hardware previously

removed, wingnuts should be fastened on the **outside** of the housing as shown.

If your unit is **not** equipped with drift cutters, you may contact Customer Support as instructed on page 2 for information regarding price and availability.

Snowthrower Model
All models

Drift Cutter Kit:
OEM-390-679

3

Setting Up Your Snow Thrower



Never use your hands to clean snow and ice from the chute assembly or auger housing.

IMPORTANT

Prior to operating your snow thrower, refer to Auger Control Test on page 11. Read and follow all instructions carefully and perform all adjustments to verify your snow thrower is operating safely and properly.

IMPORTANT

Under any circumstance do not exceed manufacturer's recommended psi. Equal tire pressure should be maintained at all times. Excessive pressure when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury. Refer to sidewall of tire for recommended pressure.

4

Operating Your Snow Thrower



WARNING

Read, understand, and follow all instructions and warnings on the machine and in this manual before operating.

Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. *Never* fuel the machine indoors or while the engine is hot or running. Extinguish cigarettes, cigars, pipes and other sources of ignition.

Know Your Snow Thrower

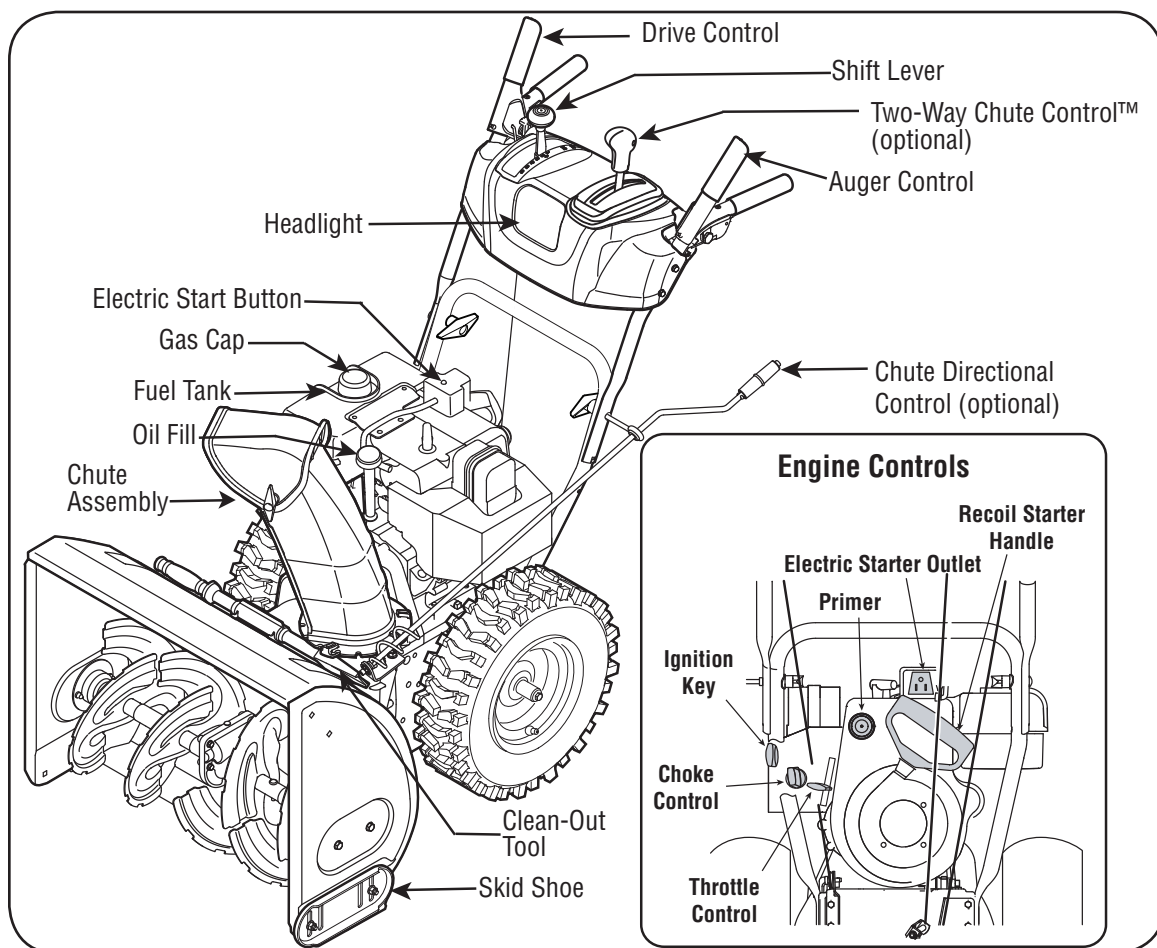


Figure 4-1

Now that you have set up your snow thrower for operation, get acquainted with its controls and features. These are described below and illustrated in Figure 4-1. This knowledge will allow you to use your new equipment to its fullest potential.

NOTE: For detailed starting instructions and more information on all engine controls, refer to the engine manual packed with your unit.

Shift Lever

The shift lever is located on the right side of the handle panel. Place the shift lever into any of eight positions to control the direction of travel and ground speed.

Forward

Your snow thrower has six forward (F) speeds, with position number one (1) being the slowest speed.

Reverse

Your snow thrower has two reverse (R) speeds, with position number one (1) being the slower speed.

6
5
4
3
2
↑
F 1
R 1
R 2

Choke Control

The choke control is found on the rear of the engine and is activated by rotating the knob clockwise. Activating the choke control closes the choke plate on the carburetor and aids in starting the engine.



Throttle Control

The throttle control is located on the engine. It regulates the speed of the engine and will shut off the engine when pushed down completely.

Primer

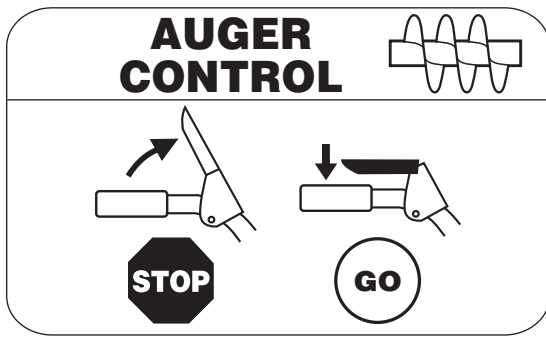
Depressing the primer forces fuel directly into the engine's carburetor to aid in cold-weather starting.

Oil Fill

Engine oil level can be checked and oil added through the oil fill.

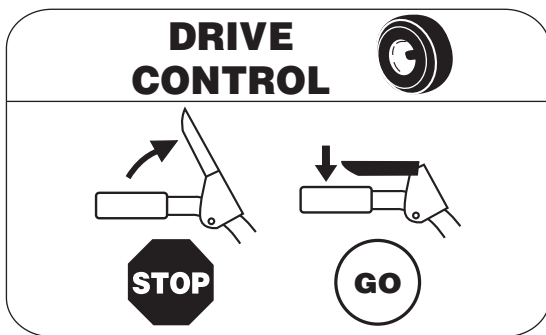


Auger Control



The auger control is located on the left handle. Squeeze the control grip against the handle to engage the augers and start snow throwing action. Release to stop.

Drive Control/ Auger Control Lock



The drive control is located on the right handle. Squeeze the control grip against the handle to engage the wheel drive. Release to stop.

The drive control also locks the auger control so you can operate the chute directional control without interrupting the snow throwing process. If the auger control is engaged simultaneously with the drive control, the operator can release the auger control (on the left handle) and the augers will remain engaged. Release both controls to stop the augers and wheel drive.

IMPORTANT: Always release the drive control before changing speeds.

Two-Way Chute Control™ (optional)

This two-way control lever is meant to control the distance of snow discharge from the chute. Tilt the lever forward or rearward to adjust the distance snow will be thrown.

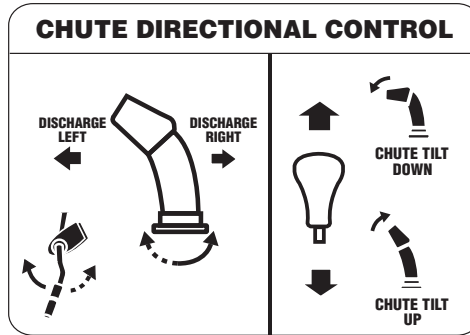
- To change the **angle/distance** which snow is thrown, pivot the joy-stick forward or backward.

Chute Directional Control (optional)

The chute directional control is located on left side of the snow thrower.

To change the direction in which snow is thrown, turn chute directional control as follows:

- Crank clockwise to discharge to the left.
- Crank counterclockwise to discharge to the right.



Ignition Key

The ignition key must be inserted and snapped in place in order for the engine to start. Remove the ignition key to prevent unauthorized use of equipment. Do NOT attempt to turn the key.

Chute Clean-Out Tool

The clean-out tool is conveniently fastened to the rear of the auger housing with a mounting clip.

1. Release both the auger control and the drive/auger control lock.
2. Stop the engine by moving the throttle to the stop position.
3. Remove the clean-out tool from the mounting clip.
4. Use the shovel-shaped end of the clean-out tool to remove any snow and ice in the chute assembly.
5. Re-fasten the clean-out tool to the mounting clip on the rear of the auger housing and restart engine.
6. While standing in the operator's position (behind the snow thrower), engage the auger control for a few seconds to clear any remaining snow or ice from the chute assembly before continuing to clear snow.



WARNING: Never use your hands to clean snow and ice from the chute assembly or auger housing.

Skid Shoes

Position the skid shoes based on surface conditions.

Adjust upward for hard-packed snow. Adjust downward when operating on gravel or crushed rock surfaces. See "Making Adjustment" Section.

Augers

When engaged, the augers rotate and draw snow into the auger housing.

4

Operating Your Snow Thrower



WARNING

The operation of any snow thrower can result in foreign objects being thrown into the eyes, which can damage your eyes severely. Always wear safety glasses while operating the snow thrower, or while performing any adjustments or repairs on it.

Be sure no one other than the operator is standing near the snow thrower while starting engine or operating snow thrower. Never run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains carbon monoxide, an odorless and deadly gas. Keep hands, feet, hair and loose clothing away from any moving parts on engine and snow thrower.



WARNING

Read, understand, and follow all instructions and warnings on the machine and in this manual before operating.

Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. *Never* fuel the machine indoors or while the engine is hot or running. Extinguish cigarettes, cigars, pipes and other sources of ignition.

If your home's wiring system is not a three-wire grounded system, do not use this electric starter under any conditions.

If your home electrical system is grounded, but a three-hole receptacle is not available, do not use your snow thrower's electric starter.

Gas & Oil Fill-Up

Service the engine with gasoline and oil as instructed in the separate engine manual packed separately with your snow thrower. Read instructions carefully.

Starting The Engine

1. Attach spark plug wire to spark plug. Make certain the metal loop on the end of the spark plug wire (inside the rubber boot) is fastened securely over the metal tip on the spark plug.
2. Make certain both the auger control and drive control are in the disengaged (released) position.
3. Move throttle control up to FAST position. Insert ignition key into slot. Make sure it snaps into place. Do not attempt to turn the key.

NOTE: The engine cannot start unless the key is inserted into ignition switch.

Electric Starter (on certain models)

1. Determine that your home's wiring is a three-wire grounded system. Ask a licensed electrician if you are not certain.



WARNING: The optional electric starter is equipped with a grounded three-wire power cord and plug, and is designed to operate on 120 volt AC household current. It must be used with a properly grounded three-prong receptacle at all times to avoid the possibility of electric shock. Follow all instructions carefully prior to operating the electric starter.

If you have a grounded three-prong receptacle, proceed as follows:

1. Plug the extension cord into the outlet located on the engine's surface. Plug the other end of extension cord into a three-prong 120-volt, grounded, AC outlet in a well-ventilated area.
2. Rotate choke control to FULL choke position (for a cold engine start).

NOTE: If the engine is already warm, place choke control in the OFF position instead of FULL.

3. Push the primer two or three times for cold engine start, making sure to cover vent hole in the center of the primer when pushing.

NOTE: DO NOT use primer to restart a warm engine after a short shutdown.

4. Push starter button to start engine.
5. Once the engine starts, immediately release starter button.

6. As the engine warms, slowly rotate the choke control to the OFF position. If the engine falters, quickly rotate the choke control back to FULL and then slowly into the OFF position again.
7. When disconnecting the extension cord, always unplug the end at the three-prong wall outlet before unplugging the opposite end from the snow thrower.

Recoil Starter

1. Rotate choke control to FULL choke position (cold engine start).

NOTE: If the engine is already warm, place choke control in the OFF position instead of FULL.

2. Push the primer two or three times for cold engine start, making sure to cover vent hole in the center of the primer when pushing.

NOTE: DO NOT use primer to restart a warm engine after a short shutdown.

NOTE: Additional priming may be necessary if the temperature is below 15° F. (-9° C).

3. Grasp the recoil starter handle and slowly pull the rope out. At the point where it becomes slightly harder to pull the rope, slowly allow the rope to recoil.
4. Pull the starter handle with a firm, rapid stroke. Do not release the handle and allow it to snap back. Keep a firm hold on the starter handle and allow it to slowly recoil.
5. As the engine warms, slowly rotate the choke control to the OFF position. If the engine falters, quickly rotate the choke control back to the FULL position and then slowly into the OFF position again.

NOTE: Allow the engine to warm up for a few minutes after starting. The engine will not develop full power until it reaches operating temperatures.

Stopping The Engine

Run engine for a few minutes before stopping to help dry off any moisture on the engine.

- To help prevent possible starter freeze-up, proceed as follows:

Electric Starter (on certain models)

1. Connect extension cord to the electric starter outlet on the engine, then to 120 volt AC outlet.
2. With the engine running, push the starter button and allow the starter for spin for several seconds. The noise made by the starter is normal. The engine's starter is not being harmed.

3. When disconnecting the extension cord, always unplug the end at the three-prong wall outlet before unplugging the opposite end from the snow thrower.
4. Move throttle control to STOP position.
5. Remove the ignition key (Do not turn key) to prevent unauthorized use of equipment.
6. Wipe all snow and moisture from the area around the engine as well as the area in and around the drive control and auger control. Also, engage and release both controls several times.

NOTE: Keep the key in a safe place. The engine cannot start without the ignition key.

Recoil Starter

1. With engine running, pull starter rope with a rapid, continuous full arm stroke three or four times. Pulling the starter rope will produce a loud clattering sound, which is not harmful to engine.
2. Move throttle control to STOP position.
3. Remove the ignition key (Do not turn key) to prevent unauthorized use of equipment.

NOTE: Keep the key in a safe place. The engine cannot start without the ignition key.

4. Wipe all snow and moisture from the area around the engine as well as the area in and around the drive control and auger control. Also, engage and release both controls several times.

To Engage Drive

1. With the engine running near top speed, move shift lever to one of six FORWARD positions or two REVERSE positions. Select a speed appropriate for the snow conditions that exist.
2. Squeeze drive control against the right handle and the snow thrower will move. Release it and the drive motion will stop.

To Engage Augers

1. To engage augers and start snow throwing, squeeze the left hand auger control against the left handle. Release to stop augers.
2. While the auger control is engaged, squeeze the drive control to move, release to stop. Do not shift speeds while the drive is engaged.

NOTE: This same lever also locks auger control so you can turn the chute control without interrupting the snow throwing process.

3. Release the auger control; the interlock mechanism should keep the auger control engaged until the drive control is released.
4. Release the drive control to stop both the augers and the wheel drive. To stop the auger, both levers must be released.

Auger Control Test

Perform the following test before operating your snow thrower for the first time and at the start of each winter. Check the adjustment of the auger control as follows:

1. When the auger control is released and in the disengaged "up" position, the cable should have very little slack. It should NOT be tight.
2. In a well-ventilated area, start the snow thrower engine as instructed on the previous page. Make sure the throttle is set in the FAST position.
3. While standing in the operator's position (behind the snow thrower), engage the auger.
4. Allow the auger to remain engaged for approximately ten (10) seconds before releasing the auger control. Repeat this several times.
5. With the throttle control in the FAST (rabbit) position and the auger control in the disengaged "up" position, walk to the front of the machine.
6. Confirm that the auger has completely stopped rotating and shows NO signs of motion. If the auger shows ANY signs of rotating, immediately return to the operator's position and shut off the engine. Wait for ALL moving parts to stop before re-adjusting the auger control.
7. To readjust the control cable, loosen the upper hex nut on the auger cable bracket. See Figure 4-2.
8. Position the bracket upward to provide more slack (or downward to increase cable tension).
9. Retighten the upper hex nut.
10. Repeat Auger Control Test to verify proper adjustment has been achieved.

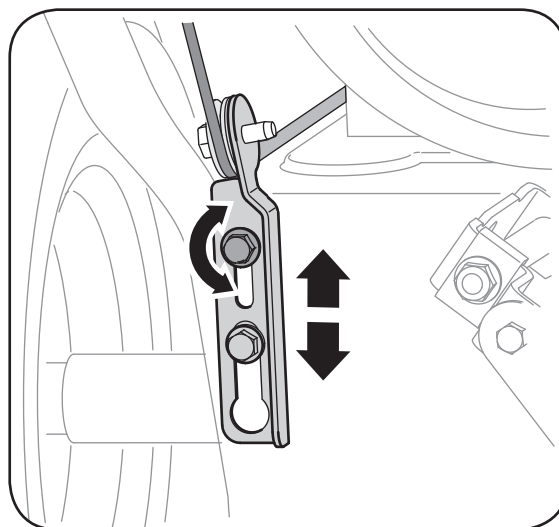


Figure 4-2



WARNING

The muffler, engine and surrounding areas become hot and can cause a burn 150°F (65°C). Do not touch.



When selecting a Drive Speed, use the slower speeds until you are comfortable and familiar with the operation of the snow thrower.

NEVER reposition the shift lever (change speeds or direction of travel) without first releasing the drive control and bringing the snow thrower to a complete stop. Doing so will result in premature wear to the snow thrower's drive system.

5

Making Adjustments



WARNING

Read, understand, and follow all instructions and warnings on the machine and in this manual before operating.

Never attempt to make any adjustments while the engine is running, except where specified in operator's manual.

Auger Control

Refer to Auger Control Test on Page 11 to adjust the auger control.

Shift Cable

If the full range of speeds (forward and reverse) cannot be achieved, refer to the figures to the right and adjust the shift cable as follows:

1. Place the shift lever in the **fastest** forward speed position.
2. Loosen the hex nut on the shift cable index bracket. See Figure 5-3.
3. Pivot the bracket downward to take up slack in the cable.
4. Retighten the hex nut.

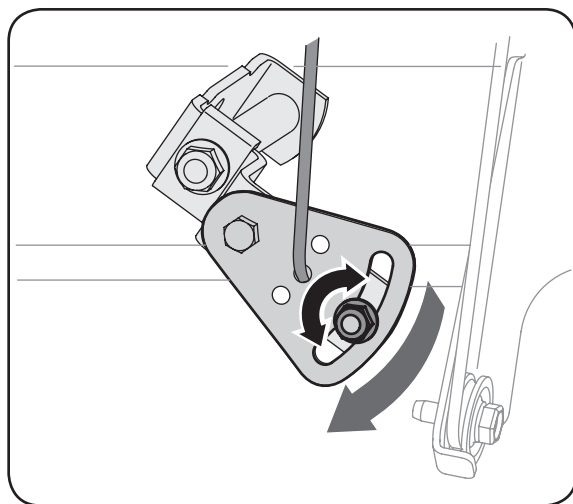


Figure 5-3

Drive Control

When the drive control is released and in the disengaged "up" position, the cable should have very little slack. It should NOT be tight.

Check the adjustment of the drive control as follows:

1. With the drive control released, push the snow thrower gently forward. The unit should roll freely.
2. Engage the drive control and gently attempt to push the snow thrower forward. The wheels should not turn. The unit should not roll freely.
3. With the drive control released, move the shift lever back and forth between the R2 position and the F6 position several times. There should be no resistance in the shift lever.
4. If any of the above tests failed, the drive cable is in need of adjustment. Proceed as follows:
5. Loosen the lower hex nut on the drive cable bracket. See Figure 5-4.
6. Position the bracket upward to provide more slack (or downward to increase cable tension).
7. Retighten the lower hex nut.

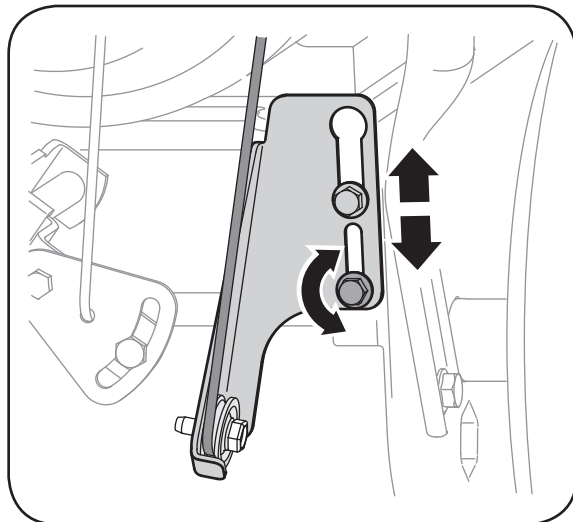


Figure 5-4

Chute Assembly (optional)

The distance snow is thrown can be adjusted by changing the angle of the chute assembly. To do so:

1. Stop the engine by removing the ignition key and loosen the plastic wing knob found on the left side of the chute assembly.
2. Pivot the chute upward or downward before retightening the wing knob. See Figure 5-5.

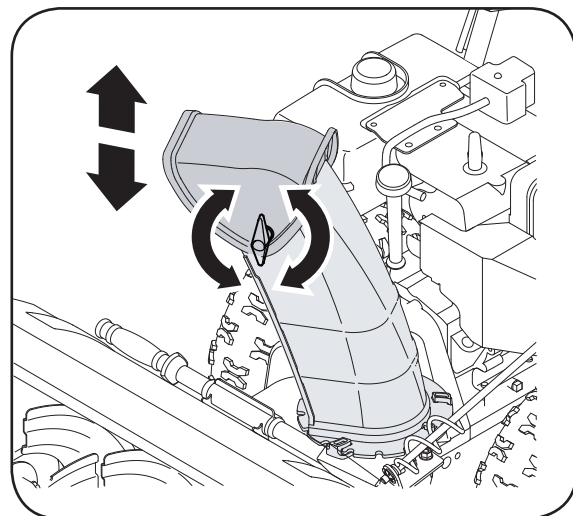


Figure 5-5

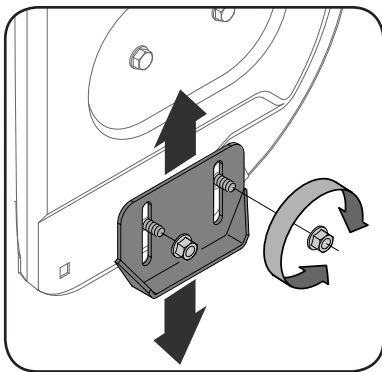


Figure 5-6 - Standard Skid Shoe

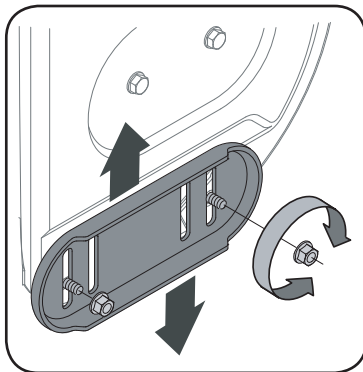


Figure 5-7 - Steel Reversible

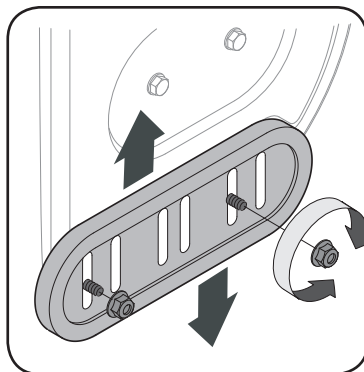


Figure 5-8 - Plastic Reversible

Skid Shoes

The space between the skid shoes and the ground can be adjusted.

- For close snow removal on a smooth surface, raise skid shoes higher on the auger housing.
- Use a middle or lower position when the area to be cleared is uneven, such as a gravel driveway.

To adjust the skid shoes:

1. Loosen the four hex nuts (two on each side) and carriage bolts. Move skid shoes to desired position.
2. Make certain the entire bottom surface of skid shoe is against the ground to avoid uneven wear on the skid shoes.
3. Retighten nuts and bolts securely.

NOTE: Some models are equipped with reversible skid shoes and may be turned over to increase their lifespan. See Figure 5-7 and 5-8.

Chute Bracket Adjustment

If the spiral at the bottom of the chute directional control is not fully engaging with the chute assembly, the chute bracket can be adjusted. To do so:

1. Loosen the two nuts which secure the chute bracket and reposition it slightly. See Figure 5-9.
2. Retightening the nuts.

Tire Pressure

Before operating, check tire pressure and reduce pressure to between 15 psi and 20 psi.

If the tire pressure is not equal in both tires, the unit may not travel in a straight path and the shave plate may wear unevenly.

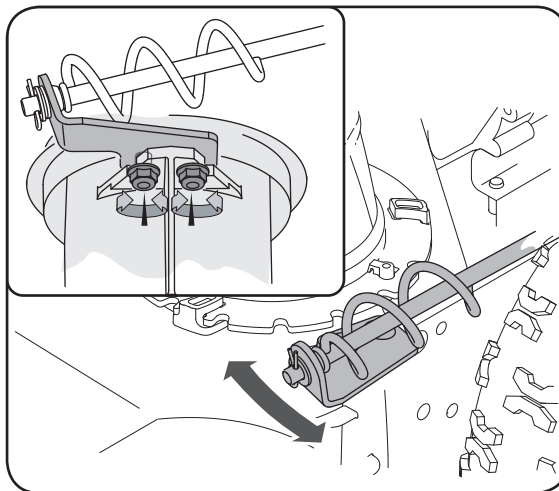


Figure 5-9

5

Making Adjustments



WARNING

Loose gravel can be picked up and thrown by the auger, causing injury to the operator and bystanders and/or damage to the snow thrower and surrounding property.

6

Maintaining Your Snow Thrower



WARNING

Before lubricating, repairing, or inspecting, disengage all controls and stop engine. Wait until all moving parts have come to a complete stop.



Keep all grease and oil off of the rubber friction wheel and aluminum drive plate.

Engine

Refer to the separate engine manual packed with your unit for all engine maintenance.

Lubrication

Engine

Refer to the separate engine manual packed with your unit for all engine lubrication instructions.

Gear Shaft

The gear (hex) shaft should be lubricated at least once a season or after every 25 hours of operation.

1. Carefully pivot the snow thrower up and forward so that it rests on the auger housing.
2. Remove the lower frame cover by removing the two screws which secure it.
3. Apply a light coating of an all-weather multi-purpose oil to the hex shaft. See Figure 6-1.

NOTE: Avoid getting oil on rubber friction wheel and aluminum drive plate.

Wheels

At least once a season, remove both wheels. Clean and coat the axles with a multipurpose automotive grease before reinstalling wheels.

Chute Directional Control (optional)

Once a season, the joystick should be lubricated with petroleum jelly, linseed oil, mineral oil, paraffin wax or 3-in-1 oil.

Auger Shaft

At least once a season, remove the shear pins on auger shaft. Spray lubricant inside shaft, around the spacers. Also lubricate the flange bearings found at either end of the shaft. See Figure 6-2.

Shave Plate and Skid Shoes

The shave plate and skid shoes on the bottom of the snow thrower are subject to wear. They should be checked periodically and replaced when necessary. To remove skid shoes:

1. Remove the four carriage bolts and hex flange nuts which secure them to the snow thrower.
2. Reassemble new skid shoes with the four carriage bolts (two on each side) and hex flange nuts. Refer to Figure 6-3.

To remove shave plate:

1. Remove the carriage bolts and hex nuts which attach it and the skid shoes to the snow thrower housing.
2. Reassemble new shave plate, making sure heads of carriage bolts are to the inside of housing. Tighten securely.

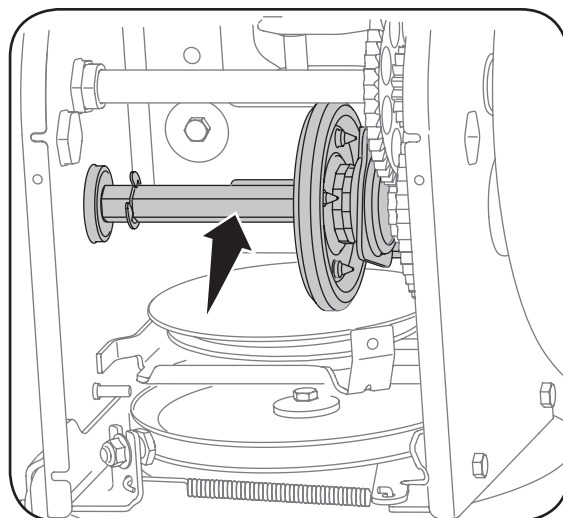


Figure 6-1

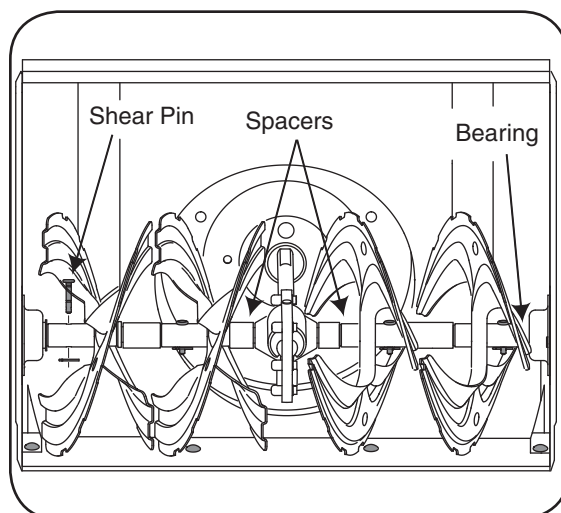


Figure 6-2

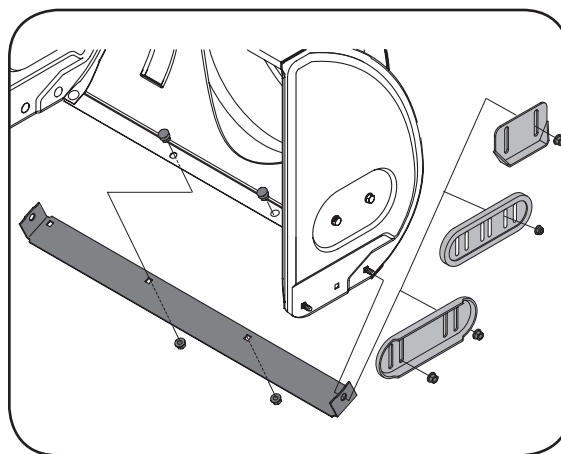


Figure 6-3

Auger Belt Replacement

To remove and replace your snow thrower's auger belt, proceed as follows:

1. Remove the plastic belt cover on the front of the engine by removing the two self-tapping screws. See Figure 6-4.

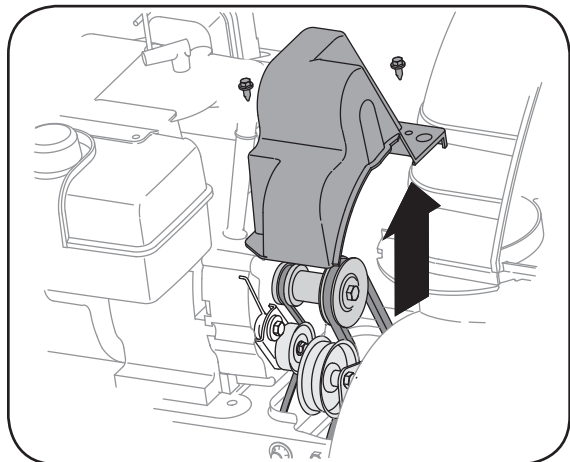


Figure 6-4

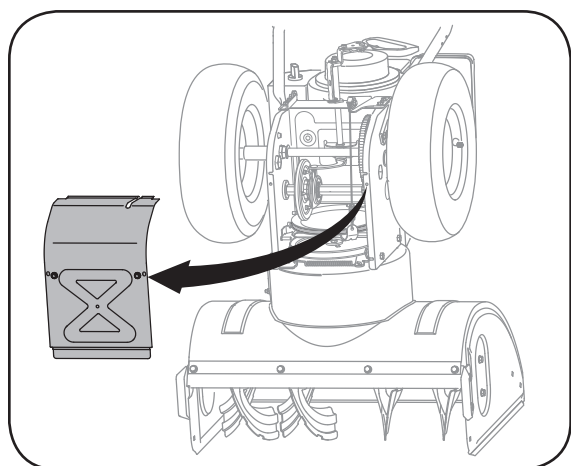


Figure 6-5

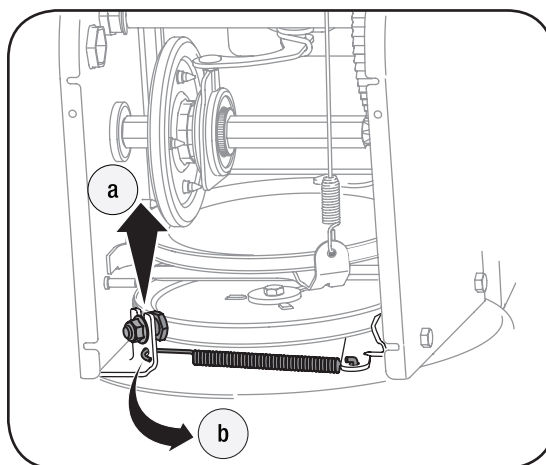


Figure 6-7

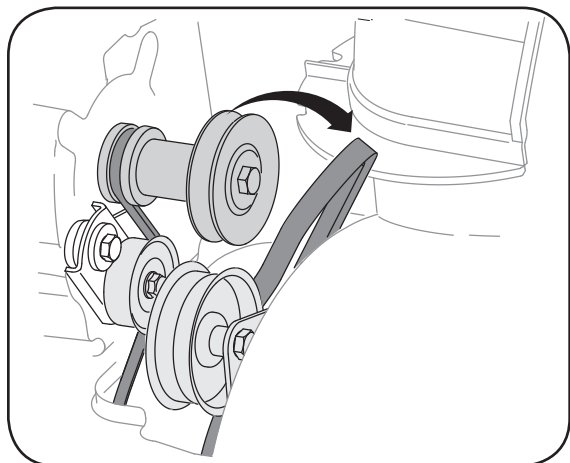


Figure 6-6

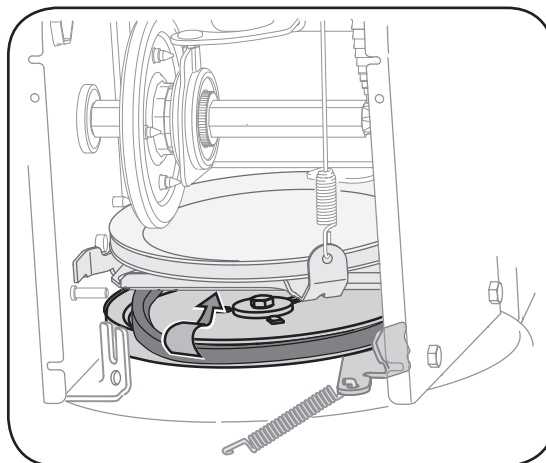


Figure 6-8

NOTE: Drain the gasoline from the snow thrower, or place a piece of plastic under the gas cap.

2. Carefully pivot the snow thrower up and forward so that it rests on the auger housing. Remove the frame cover from the underside of the snow thrower by removing four self-tapping screws which secure it. See Figure 6-5.
3. Roll the auger belt off the engine pulley. See Figure 6-6.
4. a. Loosen and remove the shoulder screw which acts as a belt keeper. See Figure 6-7.
b. Unhook the support bracket spring from the frame.
5. Remove the belt from around the auger pulley, and slip the belt between the support bracket and the auger pulley. Reassemble auger belt by following instructions in reverse order. See Figure 6-8.

NOTE: Do NOT forget to reinstall the shoulder screw and reconnect the spring to the frame after installing a replacement auger belt and to remove the piece of plastic from under the gas cap.

6

Maintaining Your Snow Thrower



NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils also result in higher oil consumption when used above 32°F (0°C). Check your snow thrower's engine oil level more frequently to avoid possible engine damage from running low on oil.

NOTE: Do not sand-blast spark plug. Spark plug should be cleaned by scraping or wire brushing and washing with a commercial solvent.

IMPORTANT

NEVER replace the auger shear pins with standard pins. Any damage to the auger gearbox or other components, as a result of doing so, will NOT be covered by your snow thrower's warranty.

6

Maintaining Your Snow Thrower



NEVER replace the auger shear pins with standard hex pins. Any damage to the auger gearbox or other components as a result of failing to do so will NOT be covered by your snow thrower's warranty.

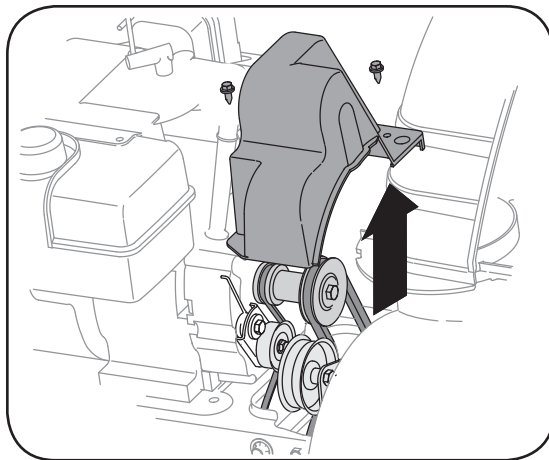


Figure 6-9

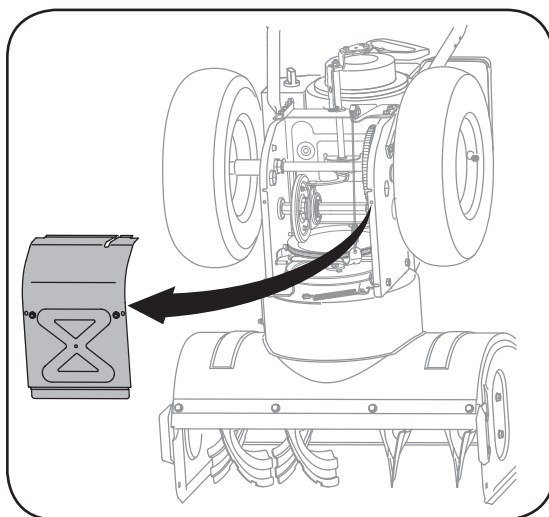


Figure 6-10

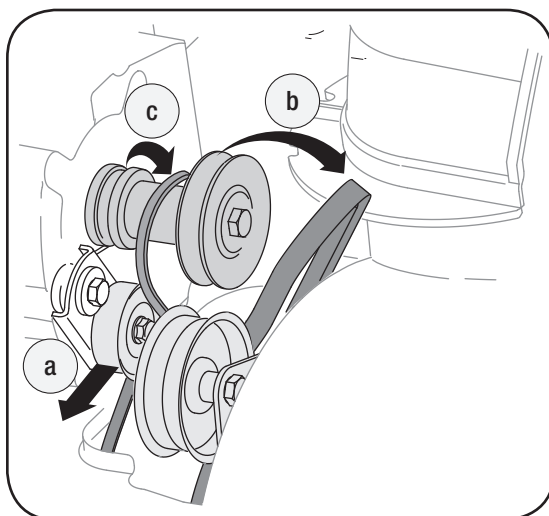


Figure 6-11

Augers

- The augers are secured to the spiral shaft with two shear pins and cotter pins. If the auger should strike a foreign object or ice jam, the snow thrower is designed so that the pins may shear. Refer to Figure 6-9.
- If the augers will not turn, check to see if the pins have sheared. One set of replacement shear pins has been provided with the snow thrower. When replacing pins, spray an oil lubricant into shaft before inserting new pins.

Drive Belt Replacement

To remove and replace your snow thrower's auger belt, proceed as follows:

1. Remove the plastic belt cover on the front of the engine by removing the two self-tapping screws. See Figure 6-9.
- Drain the gasoline from the snow thrower, or place a piece of plastic under the gas cap.
- Carefully pivot the snow thrower up and forward so that it rests on the auger housing. See Figure 6-10.
2. Remove the frame cover from the underside of the snow thrower by removing four self-tapping screws which secure it.
3. a. Use a wrench to pivot the idler pulley toward the right. See Figure 6-11.
b. Roll the auger belt off the engine pulley.
c. Lift the drive belt off engine pulley.
4. Slip the drive belt off the pulley and between friction wheel and friction wheel disc. See Figure 6-12.
- Remove and replace belt in the reverse order.

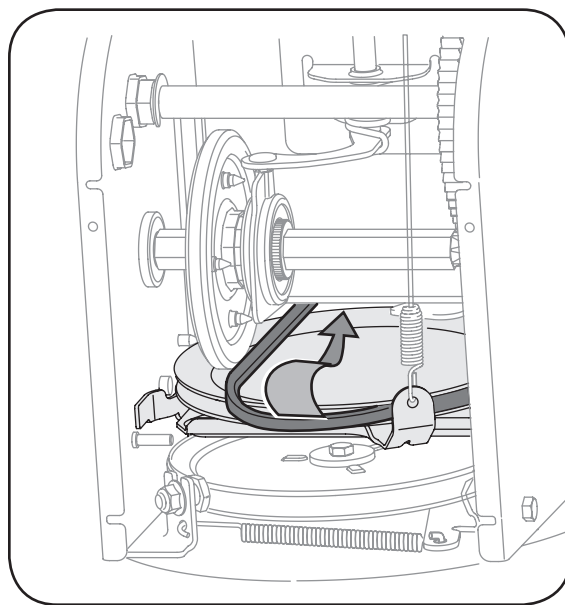


Figure 6-12

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Maintaining Your Snow Thrower



When reassembling the friction wheel assembly, tighten each screw only one rotation before turning the wheel clockwise and proceeding with the next screw. Repeat this process several times to ensure the plates are secured with equal force.

NEVER replace the auger shear pins with standard hex pins. Any damage to the auger gearbox or other components as a result of failing to do so will NOT be covered by your snow thrower's warranty.

Friction Wheel Removal

If the snow thrower fails to drive with the drive control engaged, and performing the drive control cable adjustment on page 12 fails to correct the problem, the friction wheel may need to be replaced. Follow the instructions below. Examine the friction wheel for signs of wear or cracking and replace if necessary.

- Place the shift lever in third Forward (F3) position.
 - Drain the gasoline from the snow thrower, or place a piece of plastic under the gas cap.
 - Carefully pivot the snow thrower up and forward so that it rests on the auger housing.
1. a. Remove the frame cover from the underside of the snow thrower by removing four self-tapping screws which secure it. See Figure 6-13.
 - b. Remove the right-hand wheel by removing the screw and cupped washer which secure it to the axle.
 2. Carefully remove the hex nut and washer which secures the hex shaft to the snow thrower frame and lightly tap the shaft's end to dislodge the ball bearing from the right side of the frame. See Figure 6-14.
 3. Carefully position the hex shaft downward and to the left before carefully sliding the friction wheel assembly off the shaft. See Figure 6-15.

NOTE: If you're replacing the friction wheel assembly as a whole, discard the worn part and slide the new part onto the hex shaft. Follow the steps above in reverse order to reassemble components. If you're disassembling the friction wheel and replacing only the rubber ring, proceed as follows:

4. Remove the four screws which secure the friction wheel's side plates together. See Figure 6-16.
- Remove the rubber ring from between the plates.
 - Reassemble the side plates with a new rubber ring.
 - Slide the friction wheel assembly back onto the hex shaft and follow the steps above in reverse order to reassemble components.

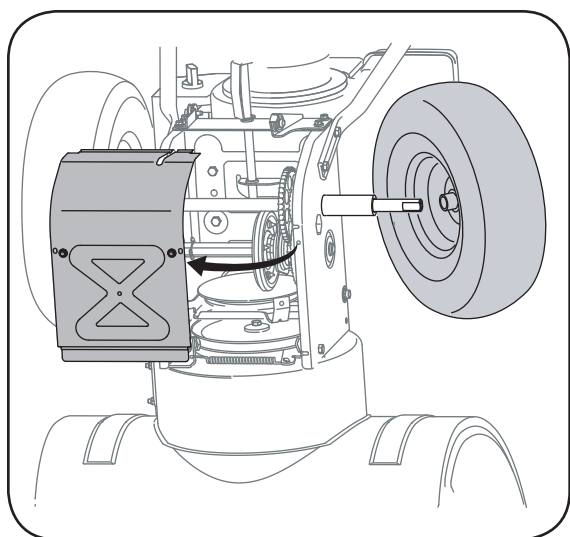


Figure 6-13

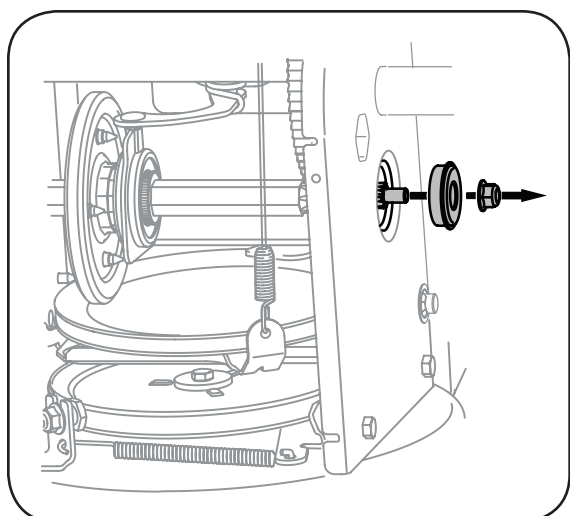


Figure 6-14

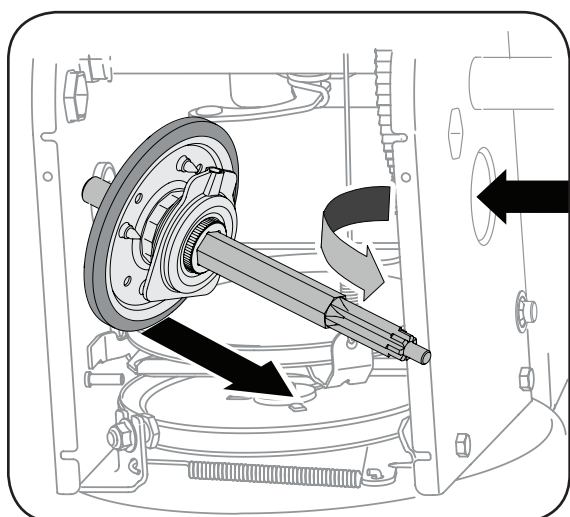


Figure 6-15

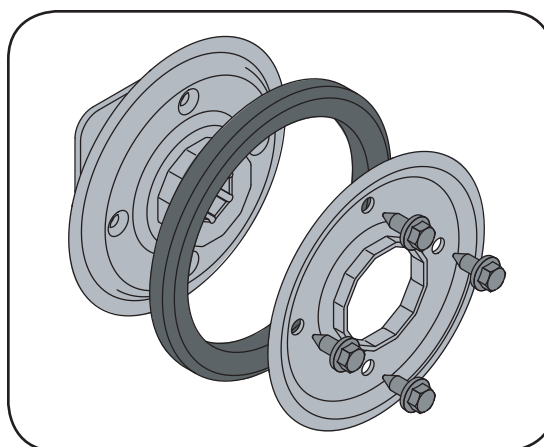


Figure 6-16

7

Off-Season Storage



WARNING

Never store snow thrower with fuel in tank indoors or in poorly ventilated areas, where fuel fumes may reach an open flame, spark or pilot light as on a furnace, water heater, clothes dryer or gas appliance.

Drain fuel into an approved container outdoors, away from any open flame. Be certain engine is cool. Do not smoke. Fuel left in engine during warm weather deteriorates and will cause serious starting problems.

Do not drain carburetor if using fuel stabilizer. Never use engine or carburetor cleaning products in the fuel tank or permanent damage may occur.

Observe the following, when preparing your snow thrower for off-season storage:

- Drain fuel into an approved container outdoors, away from any open flame. Allow engine to cool. Extinguish cigarettes, cigars, pipes and other sources of ignition prior to draining fuel. Fuel left in engine during warm weather deteriorates and will cause serious starting problems.
- If unit is to be stored over 30 days, prepare for storage as instructed in the separate engine manual packed with your unit.
- Run engine until fuel tank is empty and engine stops due to lack of fuel.
- Remove gasoline from carburetor and fuel tank to prevent gum deposits from forming on these parts and causing possible malfunction of engine.
- Drain carburetor by pressing upward on bowl drain, located below the carburetor cover.
- Fuel stabilizers, such as STA-BIL®, are an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Do not drain carburetor if using a fuel stabilizer.
- Wipe equipment with an oiled rag to prevent rust.
- Remove spark plug and pour one ounce of engine oil through spark plug hole into cylinder. Cover spark plug hole with rag. Crank engine several times to distribute oil. Replace spark plug.
- Follow the lubrication recommendations found in the Maintenance Section.
- Always store the snow thrower in a clean, dry area.

8

Trouble-Shooting



NOTE: This section addresses minor service issues. For further details, contact customer assistance.

Problem	Cause	Remedy
Engine fails to start	<ol style="list-style-type: none"> 1. Choke not in ON position. 2. Spark plug wire disconnected. 3. Fuel tank empty or stale fuel. 4. Engine not primed. 5. Faulty spark plug. 6. Blocked fuel line. 7. Safety key not in ignition on engine. 8. Fuel shut-off valve closed. (If Equipped) 	<ol style="list-style-type: none"> 1. Move choke to ON position. 2. Connect wire to spark plug. 3. Fill tank with clean, fresh gasoline. 4. Prime engine as instructed in "Operating Your Snow Thrower". 5. Clean, adjust gap, or replace. 6. Clean fuel line. 7. Insert key fully into the switch. 8. Open fuel shut-off valve.
Engine runs erratic	<ol style="list-style-type: none"> 1. Unit running on CHOKE. 2. Blocked fuel line or stale fuel. 3. Water or dirt in fuel system. 4. Carburetor out of adjustment. 	<ol style="list-style-type: none"> 1. Move choke lever to OFF position. 2. Clean fuel line; fill tank with clean, fresh gasoline. 3. Drain fuel tank. Refill with fresh fuel. 4. Contact Service Center.
Engine overheats	<ol style="list-style-type: none"> 1. Carburetor not adjusted properly. 	<ol style="list-style-type: none"> 1. Contact Service Center.
Excessive Vibration	<ol style="list-style-type: none"> 1. Loose parts or damaged auger. 	<ol style="list-style-type: none"> 1. Stop engine immediately and disconnect spark plug wire. Tighten all bolts and nuts. If vibration continues, have unit serviced by a Service Center.
Loss of power	<ol style="list-style-type: none"> 1. Spark plug wire loose. 2. Gas cap vent hole plugged. 3. Exhaust port plugged. 	<ol style="list-style-type: none"> 1. Connect and tighten spark plug wire. 2. Remove ice and snow from gas cap. Be certain vent hole is clear. 3. Contact Service Center.
Unit fails to propel itself	<ol style="list-style-type: none"> 1. Drive control cable in need of adjustment. 2. Drive belt loose or damaged. 	<ol style="list-style-type: none"> 1. Adjust drive control cable. Refer to "Adjustments". 2. Replace drive belt.
Unit fails to discharge snow	<ol style="list-style-type: none"> 1. Chute assembly clogged. 2. Foreign object lodged in auger. 3. Auger control cable in need of adjustment. 4. Auger belt loose or damaged. 5. Shear pin(s) sheared. 	<ol style="list-style-type: none"> 1. Stop engine immediately and disconnect spark plug wire. Clean chute assembly and inside of auger housing with clean-out tool or a stick. 2. Stop engine immediately and disconnect spark plug wire. Remove object from auger with clean-out tool or a stick. 3. Refer to "Auger Control Test". 4. Refer to Maintenance section. 5. Replace with new shear pin(s).

9

Warranty



Failure to comply with suggested maintenance and lubrication specifications will void warranty.

TWO YEAR LIMITED WARRANTY

The limited warranty set forth below is given by MTD Products Limited with respect to new merchandise purchased and used in Canada and/or its territories and possessions (either entity respectively, "MTD").

MTD warrants this product (excluding its normal wear parts as described below) against defects in material and workmanship for a period of two (2) years commencing on the date of original purchase and will, at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship. This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster. Damage resulting from the installation or use of any part, accessory or attachment not approved by MTD for use with the product(s) covered by this manual will void your warranty as to any resulting damage.

Normal wear parts are warranted to be free from defects in material and workmanship for a period of thirty (30) days from the date of purchase. Normal wear parts include, but are not limited to items such as: batteries, belts, blades, blade adapters, grass bags, rider deck wheels, seats, snow thrower skid shoes, friction wheels, shave plates, auger spiral rubber, tires, engine oil, air filters and spark plugs.

HOW TO OBTAIN SERVICE: Warranty service is available, WITH PROOF OF PURCHASE, through your local authorized service dealer. To locate the dealer in your area contact MTD Products Limited, Kitchener, ON N2G 4J1, or call 1-800-668-1238 or log on to our Web site at www.mtdcanada.com.

This limited warranty does not provide coverage in the following cases:

- a. The engine or component parts thereof. These items may carry a separate manufacturer's warranty. Refer to applicable manufacturer's warranty for terms and conditions. The Powermore engine is not excluded under this agreement.
- b. Log splitter pumps, valves, and cylinders have a separate one-year warranty.
- c. Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.
- d. Service completed by someone other than an authorized service dealer.
- e. MTD does not extend any warranty for products sold or exported outside of Canada, including possessions and territories.
- f. Replacement parts that are not genuine MTD parts.
- g. Transportation charges and service calls.
- h. If Products are used commercially. (MTD may separately offer Limited Commercial Warranties on certain select products. Ask your dealer or retailer for details or contact MTD Service for more information.)

No implied warranty, including any implied warranty of merchantability of fitness for a particular purpose, applies after the applicable period of express written warranty above as to the parts as identified. No other express warranty, whether written or oral, except as mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind MTD. During the period of the warranty, the exclusive remedy is repair or replacement of the product as set forth above.

The provisions as set forth in this warranty provide the sole and exclusive remedy arising from the sale. MTD shall not be liable for incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. **Alteration of safety features of the product shall void this warranty.** You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use the product.

This limited warranty shall not extend to anyone other than the original purchaser or to the person for whom it was purchased as a gift.

HOW LOCAL LAWS RELATE TO THIS WARRANTY: This limited warranty gives you specific legal rights, and you may also have other rights that vary in different jurisdictions.

IMPORTANT: Owner must present Original Proof of Purchase to obtain warranty coverage.

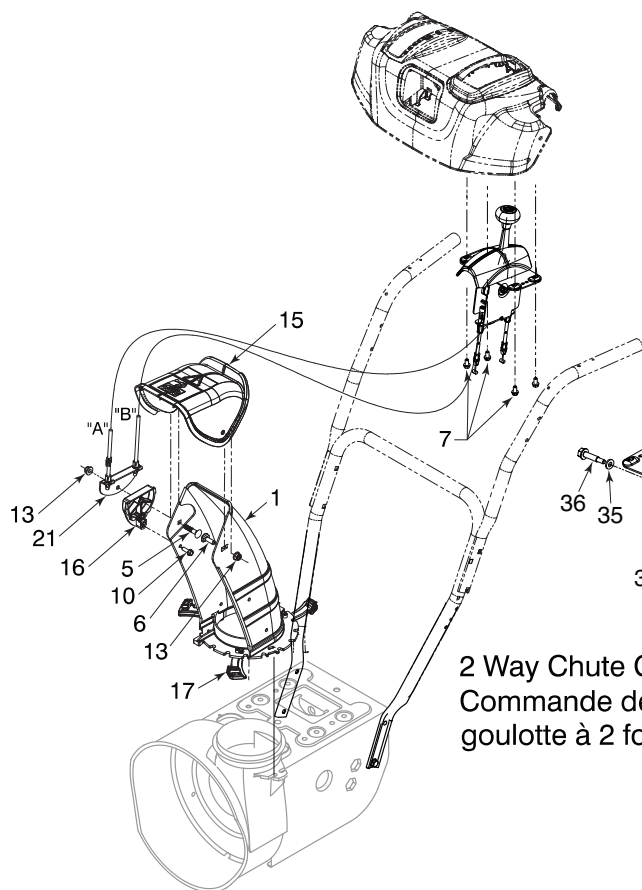
MTD Products Ltd., P. O. BOX 1386, KITCHENER, ON N2G 4J1; Phone: 1-800-668-1238

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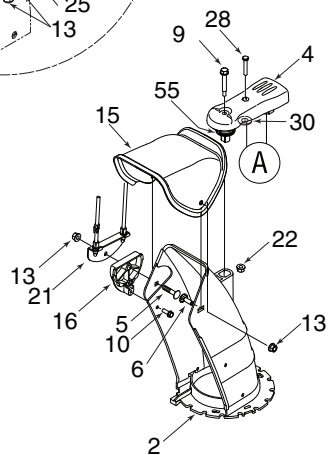
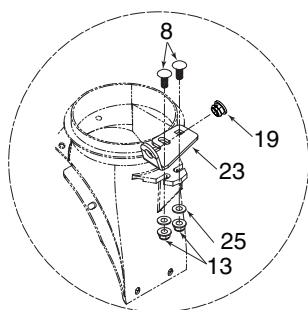
Model Modèle	Wheel Assembly Ensemble de roue	Description Description	Tire Roue	Rim Jante	Axle Essieu
31AE6GLF590 31AE6GLF596 31AE6GLF597 31AH6KLG 31AH6NKG	634-04145 634-04146	16 x 4.8 x 8 LH X-Trac 16 x 4.8 x 8 RH X-Trac	734-2038 734-2038	634-04173 634-04173	738-04168
31AH5IQ4 31AH5MLH 31AH5NQ5	634-04136 634-04137	16 x 6.5 x 8 LH X-Trac 16 x 6.5 x 8 RH X-Trac	734-2031 734-2031	634-04174 634-04174	738-04180 738-04180
31AE6MLG	634-04136 634-04137	16 x 6.5 x 8 LH X-Trac 16 x 6.5 x 8 RH X-Trac	734-2031 734-2031	634-04174 634-04174	738-04168 738-04168
31AS6ACE	634-04144A	13 x 4 Snow Hog	734-1732	634-04172A	738-04168
31AE6FFF 31AE6FHF 31AS6LCG 31AE6GKG 31AE6MFH 31AE6MKH 31AE6LHG	634-04141	16 x 4.8 Snow Hog	734-1530	634-04173	738-04168
31AS6FEE 31AS6FEF	634-04142A	15 X 5 Snow Hog	734-1859	634-04172A	738-04168
31AE6LHH	634-04135	16 X 6.5 Snow Hog	734-1525	634-04174	738-04168
31AE5LKH	634-04135	16 X 6.5 Snow Hog	734-1525	634-04174	738-04180
31AE63KE 31AH6DLE 31AH6DQ3 31AE6GLF501	634-04147A 634-04148A	15 X 5 X 6 LH X-Trac 15 X 5 X 6 RH X-Trac	734-04012	634-04172A 634-04172A	738-04168

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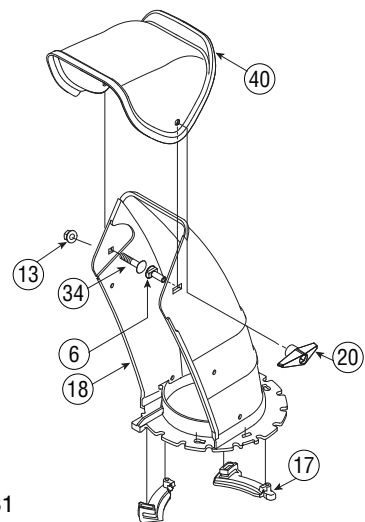
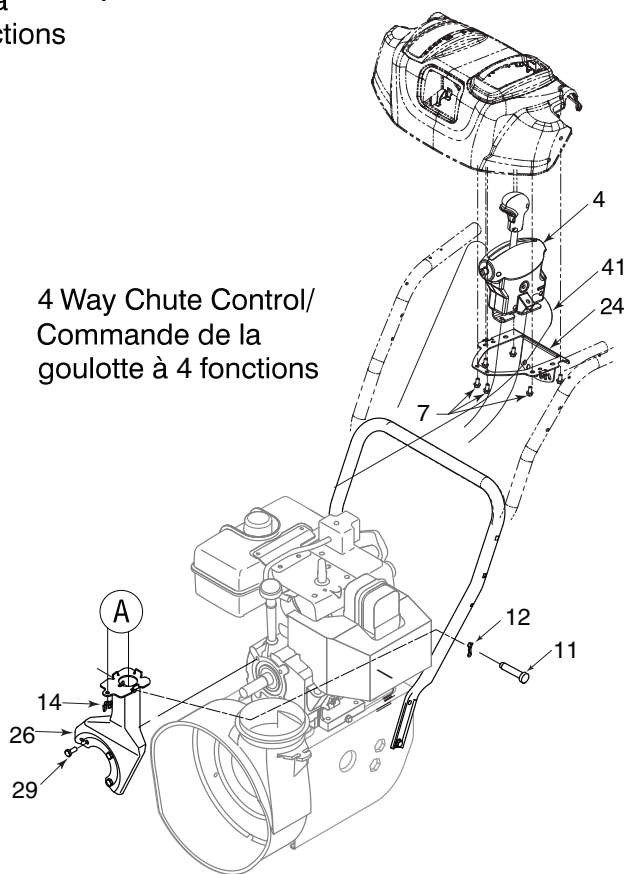
AUGER HOUSING COMPONENTS/COMPOSANTS DU LOGEMENT DES TARIÈRES						
SIZE TAILLE	AUGER HOUSING/ LOGEMENT DES TARIÈRES	AUGER AXLE/ ESSIEU DES TARIÈRES	SHAVE PLATE LAME PLATE	GEARBOX ASS'Y/ ENSEMBLE DE LA VIS SANS FIN	SPACERS/ ENTRETOISE	WORM GEAR/ ENGRENAGE
24	684-04065	711-04285	790-00120	618-04171A	731-04870 (1)	717-04449
26	684-04264	711-04284	790-00121	618-04172A	731-04870 (2)	717-04449
28	684-04268	711-04283	790-00118	618-04173A	731-04870 (3)	717-0528A
30	684-04067	711-04282	790-00119	618-04165A	731-04871 (2)	717-0528A



2 Way Chute Control/
Commande de la
goulotte à 2 fonctions



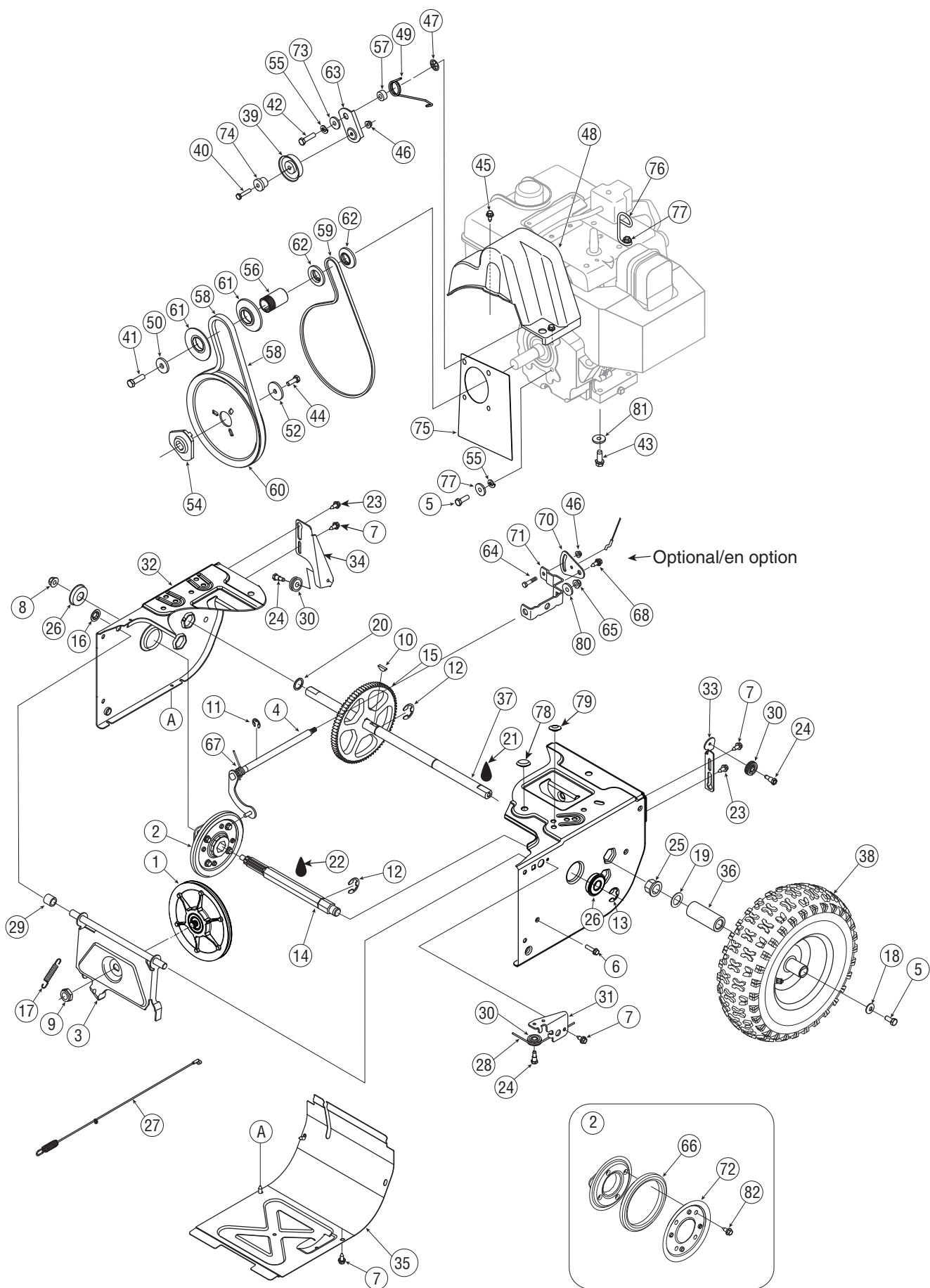
4 Way Chute Control/
Commande de la
goulotte à 4 fonctions



Manual Chute Control/
Commande de la goulotte
manuelle

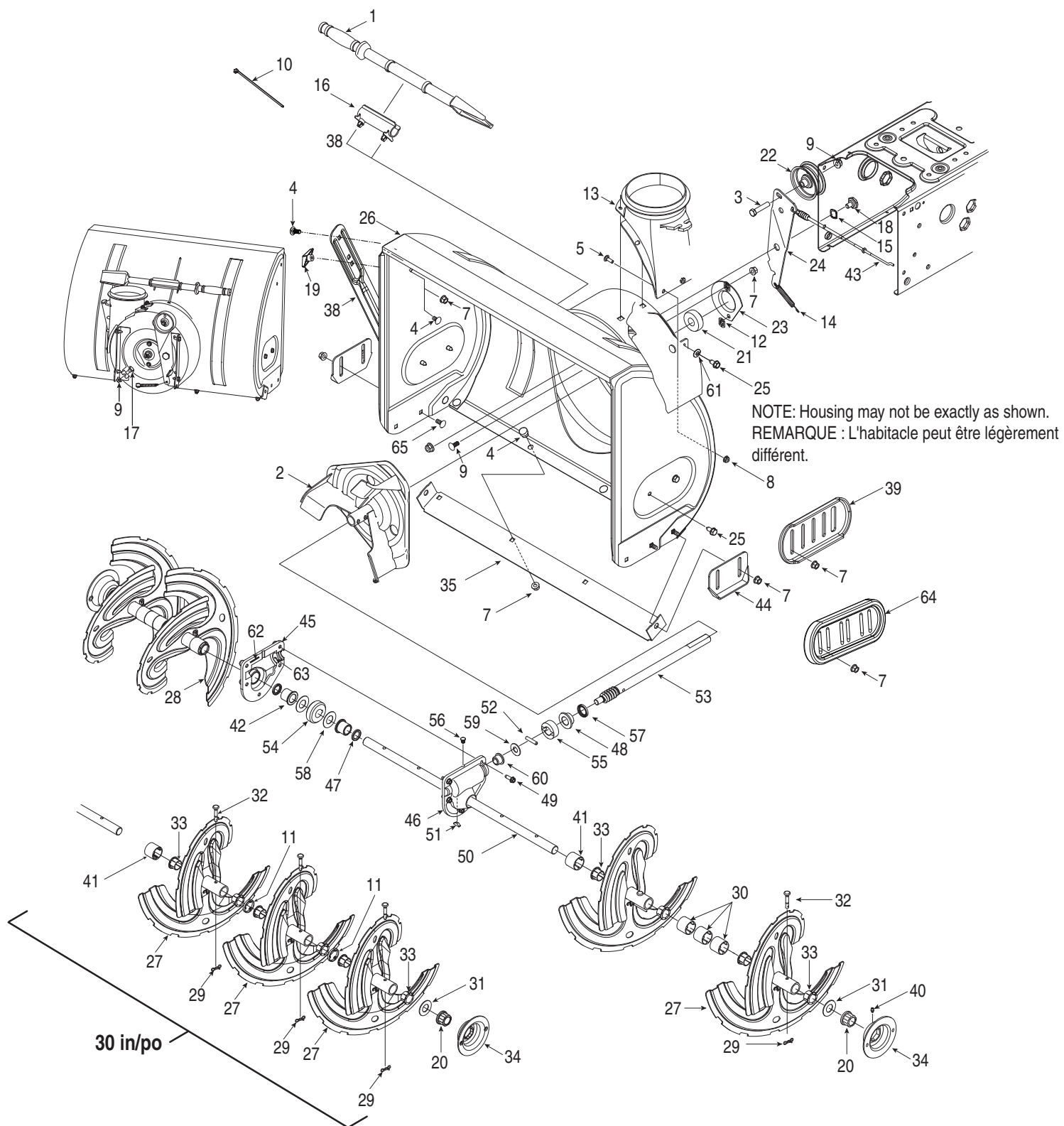
REF NO. N° DE RÉF	PART NO. N° DE PIÈCE	DESCRIPTION	DESCRIPTION
1	631-04131B	Lower Chute (2 Way)	Goulotte inférieur (2 fonctions)
2	731-04861B	Lower Chute (4 Way)	Goulotte inférieur (4 fonctions)
3	684-04117A	2 Way Chute Control Assembly	Ens. - commande de la goulotte à 2 fonctions
4	684-04116B	4 Way Chute Control Assembly	Ens. - commande de la goulotte à 4 fonctions
5	710-0262	Carriage Bolt 5/16-18 x 1.50 Gr. 2	Boulon ordinaire 5/16-18 x 1,50 Qual. 2
6	710-04071	Carriage Screw 5/16-18 x 1.0	Vis ordinaire 5/16-18 x 1,0
7	710-04187	Hi-Lo Screw 1/4-15 x .5	Vis 1/4-15 x 0,5
8	710-0276	Carriage Bolt 5/16-18 x 1.00" Lg	Boulon ordinaire de 5/16-18 x 1,00 po de lg
9	738-04194	Shoulder Screw .312 x 1.7:1/4-20	Vis épaulement 0,312 x 1,7:1/4-20
10	710-0895	Hex Tapp Scr 1/4 x .75" Lg.	Vis taraudée à tête hex. de 1/4 x 0,75 po de lg
11	711-04469A	Clevis Pin 3/8 x 1.87	Axe de chape 3/8 x 1,87
12	714-04040	Bow Tie Cotter Pin	Goupille fendue
13	712-04063	Flange Locknut 5/16-18 Gr. F Nylon	Contre-écrou à embase 5/16-18 Qual. F nylon
14	712-03087	Wing Nut 1/4-20	Écrou en oreilles 1/4-20
15	731-04425B	Upper Chute w/Export Label, Remote	Goulotte sup.,étiquette d'exp., comm. a distance
16	731-1313C	Cable Guide	Guide de la câble
17	731-04869	Chute Flange Keeper	Garde-bride de la goulotte
18	731-04912B	Lower Chute	Goulotte inférieur
19	741-0475	Plastic Bushing .380 ID	Manchon en plastique de 0,38 po de D.I.
20	720-0284	Handle Knob Assembly	Bouton
21	784-5594	Cable Bracket Chute Tilt	Support de câble
22	712-04064	Hex L-Flanged Nut 1/4-20 Gr. F Nylon	Contre-écrou à embase 1/4-20 Qual. F nylon
23	784-5647	Chute Crank Brkt.	Support du bras de goulotte d'ejection
24	790-00131	Bracket: Chute Control	Support: Commande de la goulotte
25	736-0159	Flat Washer .349 ID x .879 OD x .063	Rondelle plate 0,349 DI x 0,879 DE x 0,063
26	684-04162B	Support Bracket	Support
27	710-04187	Hi-Lo Screw 1/4-15 x .50	Vis 1/4-15 x 0,50
28	710-0606	Hex Hd. Cap Screw 1/4-20 x 1.5 Gr. 5	Vis à tête hex. 1/4-20 x 1,5 Qual. 5
29	710-0627	Hex Hd. Cap Screw 5/16-24 x .75	Vis à tête hex. 5/16-24 x 0,75
30	736-0463	Flat Washer .25 ID x .63 OD x .0515	Rondelle plate 0,25 DI x 0,63 x 0,0515
31	712-04064	Flange Locknut 1/4-20 Gr. F, Nylon	Contre-écrou à embase 1/4-20 Qual. F, nylon
32	720-04039	Knob	Bouton
33	731-05307	Control Cover - 2 Way	Couvercle (2 fonctions)
34	710-0451	Carriage Bolt 5/16-18 x .75	Boulon ordinaire 5/16-18 x 0,75
35	736-0413	Spring Washer .390 x .625 x .012	Rondelle ressort .390 x .625 x .012
36	738-04185	Flg Shlder Spacer .310 x .995 x 1/4-20	Entretoise epaulée 0,390 x 0,995 x 1/4-20
37	746-04238	Cable - 2 Way	Câble - 2 fonctions
38	790-00200	Mounting Bracket - 2 Way	Bracket - 2 fonctions
39	790-00210A	Lever - 2 Way	Levier - 2 fonctions
40	731-04354B	Upper Chute	Goulotte supérieur

31A-6004
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REF NO. N° DE RÉF	PART NO. N° DE PIÈCE	DESCRIPTION	DESCRIPTION
1	656-04025A	Friction Wheel Disc Assembly	Disque de roue du friction
2	684-04153	Friction Wheel Ass'y, Bearing 5.5 OD	Roue du friction, roulement 5,5 DE
3	684-04154	Friction Wheel Support Brkt Ass'y	Support de la roue du friction
4	684-04156A	Shift Rod Ass'y	Tige de changement de la vitesses
5	710-0627	Hex L-Bolt 5/16-24 x .75 Gr. 5	Boulon hex 5/16-24 x 0,75 Qual. 5
6	710-0788	Hex Bolt 1/4-20 x 1.00	Vis à tête hex. 1/4-20 x 1,00
7	710-1652	Hex Wash Hd TT Scr. 1/4-20 x .625	Vis taraudée 1/4-20 x 0,625
8	712-04065	Flange Lock-Nut 3/8-16 Gr. F Nylon	Contre-écrou à embase 3/8-16 Qual. F nylon
9	712-0413	Jam L-Nut 5/8-18 Gr. 5 Nylon	Écrou de blocage 5/8-18 Qual. 5 Nylon
10	714-0126	#9 HI-Pro Key 3/16 x 3/4 Dia HT	Clavette HI-Pro n°. 9 - 3/16 x 3/4 dia.
11	716-0104	Retaining Ring	Anneau de retenue
12	716-0136	Retainer Ring	Bague de retenue
13	716-0231	"E" Ring	Bague en «E»
14	717-04209A	Hex Shaft .8125 - 7 tooth	Arbre hex. 0,8125 - 7 dents
15	717-04230	Gear - 80 Tooth	Engrenage - 80 dents
16	726-0221	Cap Speed Nut 1/4 Rod	Chapeau à enfonceur
17	732-0264	Extension Spring 3/8 OD x 2.50	Ressort d'extension 3/8 DE x 2,50
18	736-0242	Cupped Washer .345 ID x .88 OD x .060	Rondelle creuse 0,345 DI x 0,88 DE x 0,060
19	736-0287	Flat Washer .79 ID x 1.25 OD x .06	Rondelle frein 0,79 DI x 1,25 DE x 0,06
20	736-04161	Flat Washer .75 x 1.00 x .06	Rondelle plate 0,75 x 1,00 x 0,06
21	737-0288	Grease	Graisse
22	737-04166	Rust Preventative Oil	Huile
23	738-04184A	Shoulder Screw .373 x .105:TT 1/4-20	Vis à épaulement 0,373 x 0,105:1/4-20
24	738-0924A	Hex Shld.Scr.1/4-28 x .375	Vis à épaulement 1/4-28 x 0,375
25	741-0245	Hex. Flange Bearing.751" ID	Roulement à bride à six pans 0,751 DI
26	741-0563	Ball Bearing w/snap ring	Roulement à billes avec bague
27	746-04229	Drive Clutch Cable 44.83" Lg.	Câble de l'entraînement 44,83 po de lg.
28	746-04230	Auger Clutch Cable 47.23" Lg.	Câble de la tarière 47,23 po de lg.
29	748-0190	Spacer .513 ID x 1.0	Entretoise 0,513 DI x 1,0
30	756-0625	Cable Guide Roller	Guide du câble
31	790-00096	Auger Cable Guide Bracket	Support, guide de la câble de la tarière
32	790-00180A	Frame	Bâti
33	790-00206A	Guide Bracket - Auger Cable	Support - câble de tarière
34	790-00207A	Guide Bracket - Drive Cable	Support - câble de l'entraînement
35	790-00316	Frame Cover	Couvercle
36	731-04873	Spacer	Entretoise
37	738-04168	Axle .75 x 22" Lg.	Essieu 0,75 x 22 po de lg.
38		See chart on page 23.	Voir tableau de la page 23.
39	684-04169	Idler Pulley Assembly 1.917 OD	Poulie tendeur 1,917 DE
40	710-0809	Hex Screw 1/4-20 x 1.25	Vis à tête hexagonale 1/4-20 x 1,25
41	710-0191	Hex Screw 3/8-24 x 1.25	Vis à tête hexagonale 3/8-24 x 1,25
42	710-0672	Hex Hd Cap Scr. 5/16-24 x 1.25 Gr. 5	Vis à tête hex. 5/16-24 1,25 Qual. 5
43	710-0654A	Hex Wash HD Tap Scr 3/8-16 x .88	Vis autotaraudée 3/8-16 x 0,88
44	710-1245B	Hex Bolt 5/16-24 x 0.875	Boulon hex. 5/16-24 x 0,875
45	710-1652	Hex Wash Hd TT Scr. 1/4-20 x .625	Vis taraudée 1/4-20 x 0,625
46	712-04064	Hex L-Flanged Nut 1/4-20 Gr. F Nylon	Contre-écrou à embase 1/4-20 Qual. F nylon
47	726-04012	Push Nut	Écrou à enfonceur
48	731-04792A	Belt Cover	Couvercle de la courroie
	731-05353	Belt Cover (w/4 way chute control)	Couvercle de la courroie (avec commande de la goulotte à 4 fonctions)
49	732-04308A	Torsion Spring .850 ID x .354" Lg.	Ressort de torsion 0,850 DI x 0,354 po de lg.
50	736-0247	Flat Washer .40 ID x 1.25 OD x .160	Rondelle plate 0,40 DI x 1,25 DE x 0,160
52	736-0505	Flat Washer .34 x 1.50 x .150	Rondelle plate 0,34 x 1,50 x 0,150
53	737-0318	Grease:Arctic:EP NLGI 1-58F	Graisse
54	748-04053	Pulley Adapter	Adaptateur de la poulie
55	736-0119	Lockwasher 5/16	Rondelle frein 5/16
56	750-04303	Spacer .875 ID x 1.185 OD	Entretoise 0,875 DI x 1,185 DE
57	750-04477	Spacer .340 x .750 x .360" Lg.	Entretoise 0,340 x 0,750 x 0,360 po de lg.
58	754-04050	Belt .5 x 35.0" Lg.	Courroie 0,5 x 35,0 po de lg.
59	754-0367	Belt 34.4" Lg.	Courroie trapézoïdale 34,4 po de lg.
60	756-04109	Auger Pulley	Poulie de la tarière
61	756-04113	Pulley Half	Moitié poulie
62	756-04252	Pulley Half 3/8 V x 1.71 OD	Poulie, demi 1,7 DE
63	790-00208A	Wheel Drive Idler Bracket	Support
64	710-0751	Hex Bolt 1/4-20 x .62 Gr. 5	Boulon hexagonale 1/4-20 x 0,62 Qual. 5
65	712-04063	Flange Locknut 5/16-18 Gr. F, Nylon	Contre-écrou à embase 5/16-18 Qual. F, nylon
66	735-04054	Friction Wheel Rubber	Roue du friction en caoutchouc
67	732-04311	Torsion Spring .750 ID x .968" Lg.	Ressort de torsion 0,750 DI x 0,968 po de lg.
68	738-04184A	Shoulder Screw .373 x .105:TT 1/4-20	Vis à épaulement 0,373 x 0,105:1/4-20
70	790-00217A	Pivot Bracket	Support de pivot
71	790-00218A	Shift Bracket	Support de changement de la vitesses
72	790-00174	Friction Plate	Plaque du friction
73	748-04112A	Shld. Spacer .3175 x .5 x .1025	Entretoise 0,3175 x .50 x 0,1025
74	750-04571	Spacer	Entretoise
75	790-00289A	Cover Plate (optional)	Plaque (en option)
76	732-0705	Cable Control Wire	Fil de commande de la câble
77	748-0234	Shoulder Spacer	Entretoise à épaulement
78	735-04100	Plug 1/2"	Bouchon 1/2 po
79	735-04099	Plug 3/8"	Bouchon 3/8 po
80	736-3015	Flat Washer .469 x .875 x .105	Rondelle plate 0,469 x 0,875 x 0,105
81	736-0320	Flat Washer .38 x 1.38 x .125 (Rear left hole)	Rondelle plate 0,38 x 1,28 x 0,125 (arriere gauche trou)

31A-6003
6.19.07



REF NO. N° DE RÉF	PART NO. N° DE PIÈCE	DESCRIPTION	DESCRIPTION
1	731-2643	Clean-Out Tool	Outil de dégagement de la goulotte
2	684-04057A	Impeller Ass'y 12 po	Ventilateur
3	710-0347	Hex Screw 3/8-16 x 1.75	Vis à tête hex 3/8-16 x 1,75
4	710-0451	Carriage Bolt 5/16-18 x .75	Boulon ordinaire 5/16-18 x 0,75
5	710-0703	Carriage Screw 1/4-20 x .75 Gr. 5	Boulon ordinaire 1/4-20 x 0,75 Qual. 5
7	712-04063	Flange Locknut 5/16-18 Gr. F Nylon	Contre-écrou à embase 5/16-18 Qual. F nylon
8	712-04064	Hex L-Flanged Nut 1/4-20 Gr. F Nylon	Contre-écrou à embase 1/4-20 Qual. F nylon
9	712-04065	Hex L-Flanged Nut 3/8-16 Gr. F Nylon	Contre-écrou à embase 3/8-16 Qual. F nylon
10	725-0157	Cable Tie	Attache câble
11	731-04871	Spacer 1.25 x .75 x 3/16" Lg.	Entretoise 1,25 x 0,75 x 3/16 po de lg.
12	726-04012	Push-on Nut .25 dia.	Écrou pousser 0,25 diam.
13	731-04705	Chute Adapter	Adaptateur de goulotte d'éjection
14	732-04460	Extension Spring .38 OD x 4.59" Lg.	Ressort d'extension 0,38 DE x 4,59 po de lg.
15	736-0174	Wave Washer .660 ID x .88 OD x .010	Rondelle ondulée 0,660 DI x 0,88 DE x 0,010
16	731-2635	Cleanout Tool Mount	Montage de la outil de dégagement de la goulotte
17	738-0143	Shld. Scr. .500 Dia. x .335" Lg.	Vis à épaulement dia. 0,500 po x 0,335 po de lg.
18	738-0281	Shoulder Scr .625 Dia x .170	Vis à épaulement dia 0,625 x 0,170 po
19	720-0284	Hand Knob	Bouton
20	741-0245	Hex. Flange Brg. .751" I.D.	Roulement 0,75 DI
21	741-0309	Self-aligning bearing	Roulement auto-aligneur
22	756-0981B	Flat Idler Pulley 2.75" OD	Poulie tendeur 2,75 DE
23	790-00075	Bearing Housing 1.85 ID	Carter de la roulement 1,85 DI
24	790-00080A	Auger Idler Brake Bracket	Support
25	710-04484	Hex TT Screw 3/8-16 x .75	Vis taraudée 3/8-16 x 0,75
26		See chart on page 23.	Voir tableau de la page 23.
27	684-04107	Spiral Ass'y LH	Tarière CG
28	684-04108	Spiral Ass'y RH	Tarière CD
29	714-04040	Bow Tie Cotter Pin	Goupille fendue
30		See chart on page 23.	Voir tableau de la page 23.
31	736-0188	Flat Washer .760 ID x 1.49 OD	Rondelle plate 0,760 DI x 1,49 DE
32	738-04124A	Shear Pin .25 x 1.5 Gr. 2	Goupille de cisaillement 0,25 x 1,5 po de lg
33	741-0493A	Flange Bushing	Collet à bride
34	790-00087A	Bushing Housing	Carter de la collet
	790-00138A	Bushing Housing (w/grease fitting hole)	Carter de la collet (avec trou pour raccord de graissage)
35		See chart on page 23.	Voir tableau de la page 23.
38	790-00181	Drift Cutter - Optional	Virole de réglage - en option
39	790-00091	Reversible Slide Shoe (steel)	Patin réversible (acier)
40	737-3000	Grease Fitting (optional)	Raccord de graissage (en option)
41	731-04870	Spacer 1.25 x .75 x 1.00	Entretoise 1,25 x 0,75 x 1,00 po de lg.
42	741-0661A	Flange Bearing .75 ID x 1.0 OD x .975	Roulement 0,75 DI x 1,0 DE x 0,975
43	746-04230	Auger Clutch Cable	Câble de tarière
44	784-5580	Slide Shoe	Sabot couissant
45	719-04291	RH Reduced Auger Housing	Carter de l'engrenage CD
46	719-04292	LH Reduced Auger Housing	Carter de l'engrenage CG
47	721-0338	Oil Seal .75 x 1.0 x .125	Joint d'étanchéité d'huile 0,75 x 1,0 x 0,125
48	741-0662	Flange Bearing .75 ID x 1.00 OD x .50	Roulement 0,75 DI x 1,00 DE x 0,50
49	710-0642	Thd Forming Scr. 1/4-20 x .75	Vis taraudée 1/4-20 x 0,75
50		See chart on page 23.	Voir tableau de la page 23.
51	714-0161	Hi Pro Key 3/16 x 5/8	Clé 3/16 x 5/8
52	715-04021	Dowel Pin .25 OD x 1.2	Goupille 0,25 x 1,2
53	717-04126	Worm Shaft .75 OD	Arbre 0,75 DE
54		See chart on page 23.	Voir tableau de la page 23.
55	718-04071	Thrust Collar	Collet
56	721-0325	Plug, 1/4 x .437	Bouchon 1/4 x 0,437
57	721-0327	Oil Seal .75 x 1 x .131	Joint d'huile 0,75 DI x 1 x 0,131
58	736-0351	Flat Washer .76 ID x 1.5 OD x .03	Rondelle plate 0,76 DI x 1,5 DE x 0,03
59	736-3084	Fl. Washer .510 x 1.120 x .060	Rondelle frein 0,510 x 1,120 x 0,060
60	741-0663	Flange Bearing .75 ID x 1.0 OD x .925	Roulement 0,75 DI x 1,0 DE x 0,925
61	736-0242	Cupped Washer .345 ID x .88 OD x .060	Rondelle creuse 0,345 DI x 0,88 DE x 0,060
62	721-0328	Loctite Sealant 5699	Loctite
63	737-0168	Grease - Alvania EP Lead Free	Graisneur
64	731-05984	Reversible Slide Shoe (plastic)	Patin réversible (plastique)
65	710-0451	Carriage Bolt 5/16-18 x .75 (w/steel slide shoes)	Boulon ordinaire 5/16-18 x 0,75 (avec sabot couissant acier)
	710-0276	Carriage Bolt 5/16-18 x 1.0 (w/plastic slide shoes)	Boulon ordinaire 5/16-18 x 1,0 (avec sabot couissant acier)

31A-6002
6.21.07

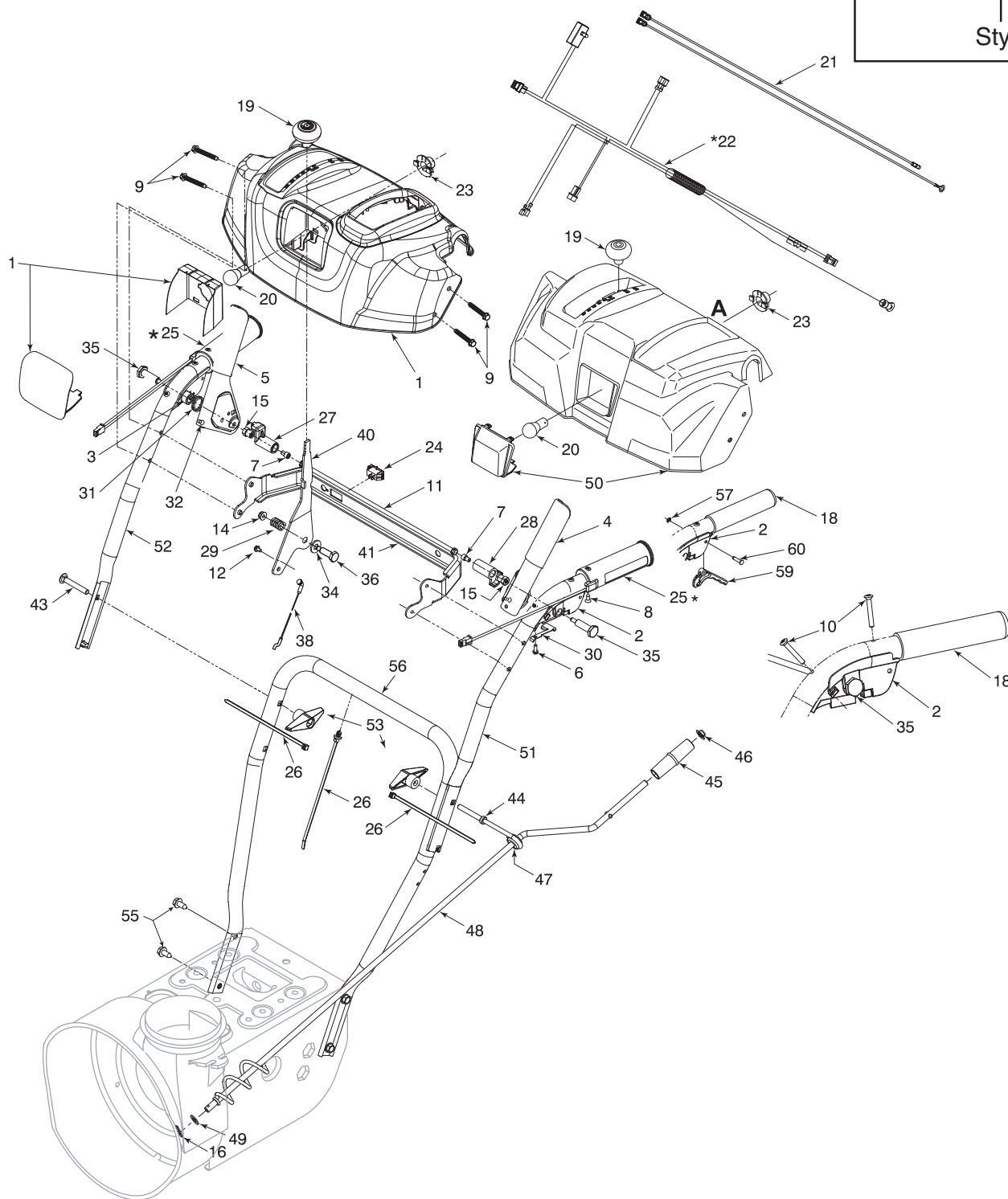
Styles H, K, L, P & Q

* With heated grips only/Avec poignées chauffées seulement.

Model Number/
Numéro de modèle

31AE6GKF500

↑
Style



REF NO. N° DE RÉF	PART NO. N° DE PIÈCE	DESCRIPTION	DESCRIPTION
1	631-04180	Handle Panel Ass'y - Yellow	Panneau - jaune
1	631-04185	Handle Panel Ass'y - Black	Panneau - noir
1	631-04183	Handle Panel Ass'y-Black w/Chute Control	Panneau - noir avec comm. de la goulotte
2	631-04133A	LH Clutch Lock Handle Ass'y	Poignée d'embrayage CG
3	631-04134B	RH Clutch Lock Handle Ass'y	Poignée d'embrayage CD
4	684-04105B	Engagement Handle Assembly LH	Poignée d'entraînement CG
5	684-04106B	Engagement Handle Assembly RH	Poignée d'entraînement CD
6	710-04326	Screw #8-16 x .50	Vis n°. 8-16 x 0,50
7	710-04354	Screw 1/4-20 x .375	Vis 1/4-20 x 0,375
8	710-0837	Oval HD C-Sunk Scr #10 x 5/8	Vis à tête goutte de suif n°. 10 x 5/8
9	710-04586	Hex TT-Tap Scr 1/4-20 x 1.625	Vis taraudée 1/4-20 x 1,625
10	710-1233	Oval C-Sunk Hd Screw 10-24 x 1.375	Vis 10-24 x 1,375
11	684-04250	Pivot Rod	Tige de pivot
14	712-04064	Hex L-Flanged Nut 1/4-20 Gr. F Nylon	Contre-écrou à embase 1/4-20 Qual. F nylon
15	712-04081A	Hex Shoulder Nut 1/4-20	Écrou 1/4-20
16	714-0104	Int. Cotter Pin .072 x 1.13" Lg.	Goupille fendue int. 0,072 x 1,13 po de lg.
18	720-0274	Grip	Poignée
19	720-04039	Shift Knob	Bouton
	720-04045	Shift Knob - Yellow	Bouton - jaune
20	725-04213	Lamp #1295 (w/heated grips)	Ampoule n°. 1295 (avec poignées chauffées)
	725-1629	Lamp	Ampoule
21	625-04039	Wire Harness	Faisceau de fil
22	725-04216A	Heated Grip Wire Harness	Faisceau de fil - poignée chauffée
23	725-1649	Socket	Douille
24	725-04393	Switch	Contracteur
25	725-1757	Heated Grip	Poignée chauffée
26	726-0470	Cable Tie 19 x 8.39" (w/plug)	Attache-câble 19 x 8,39 po
	725-0157	Cable Tie (w/heated grips)	Attache-câble (avec poignée chauffée)
27	731-04894C	Lock Plate	Palastre de serrure
28	731-04896B	Clutch Lock Cam	Came
29	732-0193	Compression Spring .38 ID x .88 Lg	Ressort de compression 0,38 DI x 0,88 po de lg.
30	732-04219A	Spring: Clutch Lock	Ressort: Verrou d'embrayage
31	732-04238	Torsion Spring .8156 x .3038	Ressort de torsion 0,8156 x 0,3038
32	735-0199A	Rubber Bumper	Pare - chocs en caoutchouc
34	736-0267	Flat Washer .38 ID x .87 OD x .09	Rondelle plate 0,38 DI x 0,87 DE x 0,09
35	738-04122	Shoulder Screw 1/4-20 x 1.345	Vis à épaulement 1/4-20 x 1,345
36	738-04125	Shoulder Screw .374 Dia. x 1.05 Lg.	Vis à épaulement 0,374 dia. x 1,05 po de lg.
38	746-04396	Selector Speed Cable	Câble
40	790-00311	Shift Lever	Levier de changement de la vitesse
41	790-00248A	Panel Support	Support de panneau de bord
43	710-0449	Carriage Bolt 5/16-18 x 2.25	Boulon ordinaire 5/16-18 x 2,25
44	747-04263	Chute Crank Eye Bolt Special	Boulon à oeil spécial
45	720-0201A	Knob 1.0 x 3.2	Bouton 1,0 x 3,20
46	726-0100	Push Nut 3/8" Rod	Écrou pour tige de 3/8 po
47	735-0234	Grommet	Grummet
48	684-04104	Chute Crank Assembly	Manivelle de la goulotte
49	736-0185	Flat Washer .406" I.D. x .75" O.D.	Rondelle plate 0,406 DI x 0,75 DE
50	631-04181	Handle Panel Ass'y - Troy-Bilt	Panneau - Troy-Bilt
51	749-04142A	Upper Handle LH	Goulotte supérieur CG
51	749-04191A	Upper Handle LH (Heated Grips)	Guidon supérieur CG (poignée chauffée)
52	749-04141A	Upper Handle RH	Guidon supérieur CD
52	749-04190A	Upper Handle RH (Heated Grips)	Guidon supérieur CD (poignée chauffée)
53	720-0284	Handle Knob Assembly	Bouton
55	710-04484	Hex TT Screw 3/8-16 x .75	Vis taraudée 3/8-16 x 0,75
56	749-04138A	Lower Handle	Guidon inférieur
57	716-04036	E Ring	Bague en «E»
59	731-04913	Steering Control	Commande d'orientation
60	738-04126	Pin 3/16	Goupille 3/16

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